FELINE HISTORY, OCCULT, & OVERT EXAM Steven J Bailey, DVM, DABVP (Feline) ECats Veterinary Hospital

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Electronic Medical Records

- Our examination findings are the **heart** of our electronic EMR
 - History or presenting complaint is a combination of comments entered by receptionists, technicians, and the veterinarian
 - o Current medications and dietary history can be confusing and exhaustive
 - "Current Meds & Diet"
 - Copy-paste-verify from the most recent prior visit
 - Physical Examination (PE):
 - Always starts with a change in body weight over time (%)
 - Scoring systems are helpful in research and objective trending
 - Less meaningful, confusing, to clients
 - Remainder of examination is recorded as a template
- The Master Problem List (MPL) is the **soul** of our EMR
 - o Most Practice Management Software (PMS) programs to a poor job with the MPL
 - Manual MPL upkeep adds value, improves patient management
 - Problems are ranked in order of importance
 - All staff members have a role in MPL upkeep
 - Once CKD is added to the MPL it generally takes the lead
 - "Resolved", or "inactivated" problems are moved to the bottom of the list
 - This MPL is printed out to a paper 'baton' which is used for notes
 - This "Admit Sheet" contains important household information and is printed for all our patients, whether they are seen outpatient or become inpatients.

Client Consultation

- Integrated or wholeistic
 - o Review the records for other cats in the home
 - Encourage compliance for wellness care or follow up on previous medical issues (dental care).
 - Next, review this patient's history and consider missed followup care, or missed wellness care
 - o Finally, review the reason for today's presentation
 - o During this time, the "occult" examination has already begun.

Occult Examination

- Avoid overtly greeting the cat, and looking at the cat
 - o In fact, the occult exam starts the moment you enter
 - o Demeanor:
 - Gregarious, dog-like, timid, agitated, aggressive, etc.
 - Attempt examination, even if the owner labels the cat as "feral"
 - o CNS assessment, neurologic status
 - Pain assessment
 - What is the cat's quality of life?
 - o Gait:
 - Is the gait a 'walk' or a 'pace'
 - Normal straight, stilted, or hypermetric
 - Lameness, weight bearing
 - Respiratory
 - Oculonasal discharge
 - Not typically confusing or overlooked
 - Noise:
 - Usually coincides with effort, but not always
 - Very important: inspiratory or expiratory?
 - The big three are stertor (common), stridor, and wheeze
 - Don't order radiographs until you are sure of this
 - Effort:
 - Usually coincides with effort, but not always
 - Very important: inspiratory or expiratory?
 - Don't order radiographs until you are sure of this
 - Dyspnea is a clinical symptom reported by man, and inferred by veterinarians. Always include the adjective, inspiratory or expiratory

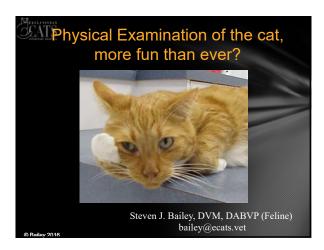
- Rate:
 - Most nervous cats in the clinic, following their transportation stresses, will have a respiratory rate (RR) of about 50 bpm. Chest excursions should be shallow and show minimal effort. When I actually lay my hands on the cat I will palpate (body condition, muscle tone and) respiratory effort to confirm my initial assessment. Assessing for eupnea (or dyspnea) is a process, I encourage you remain skeptical of your first assessments.
- Symmetry
 - Eyes:
 - Anisocoria, dyscoria, axis rotation, or deviation
 - Anterior chamber depth,
 - Third eyelid protrusion
 - Ears:
 - Position (hyperT4) and posture,
 - Ear tip droop (old, steroids, catabolism)
 - Movement (deaf and CN7)
- Special Senses (other than taste)
 - Vision (as they move about)
 - Hearing (tweet, kiss, clap)
 - Smell
 - Cats should be smelling everything, if they are not, there could be an issue
 - o Anosmia
 - "Overlapping clouds" of informative odors
- Coat condition
 - Relates to dental, musculoskeletal, other conditions
- o Pruritus
 - Most cats presented for an exam in your practice should not be grooming
 - Grooming is done when they are relaxed and settled
 - If they are grooming in you exam room, consider that they may be pruritic or annoyed

Physical Examination: overt exam

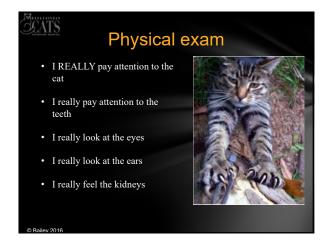
- Feel the cat
- Examine the head, neck, and mouth
- Examine the front feet (more?)
- Examine & auscult the chest

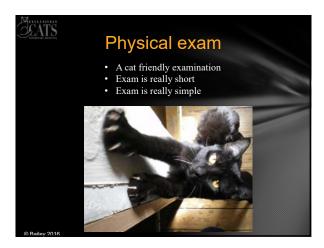
- Palpate the kidneys (abdomen)
- Examine the eyes and ears
 - o Every cat, ever eye, every ear ever visit
- Exam takes < 2 minutes

AAFP Feline Track AAFP Feline Track Cat Friendly Practice by the American Association of Feline Practitioner www.catvets.com info@catvets.com



 Problem Oriented Medical Records (POMR) Electronic medical records (EMR) Master Problem List- Important Occult examination- Important Overt examination Feel the cat Examine the head, neck, and mouth Examine the front feet (more?) Examine & auscult the chest Palpate the kidneys (abdomen)
 Examine the eyes and ears Exam takes < 2 minutes

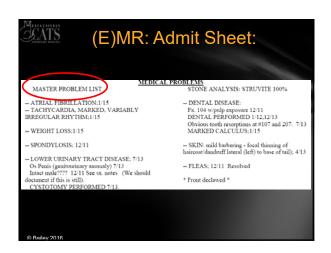


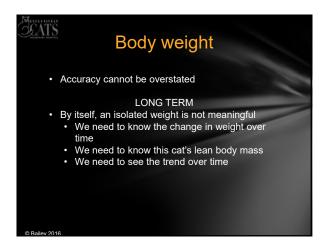


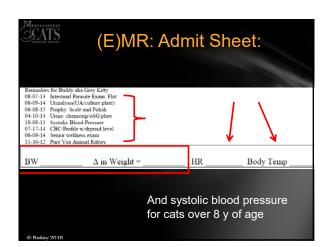
















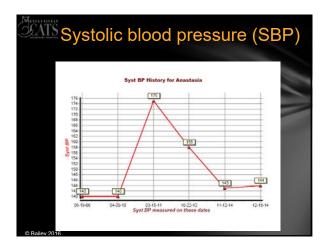
SHORT TERM • Trend over the course of treatment • A tool to reconcile ins and outs of fluid balance for any cat receiving aggressive or prolonged fluid therapy • Weigh cats on IV fluids twice daily

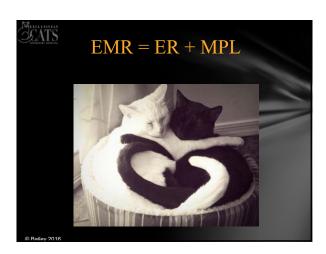


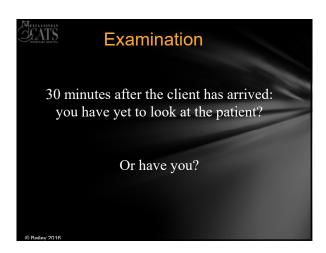
BCS?	
 Body Condition Score (5/5, 9/9, 10/10) 	
Muscle Condition Score (sarcopenia)	
Pain Score	
Quality of life score (Karnofsky)	
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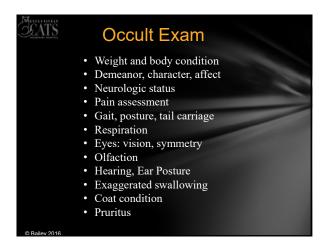
• Emaciated (1/10) • Markedly skinny • Very lean condition • Lean body condition • Good body condition • Mildly overweight • Moderately overweight • Markedly overweight • Obese • Morbidly Obese (10/10)

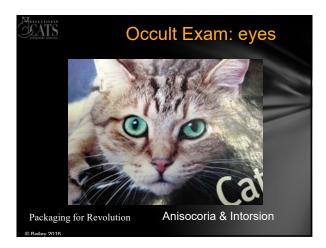


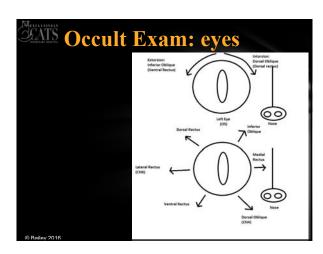






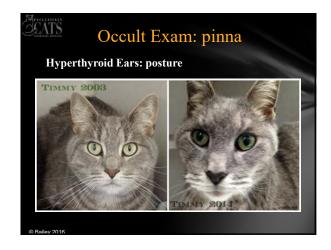




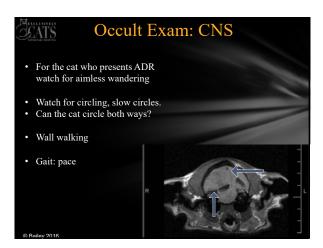


Occult Exam: hearing Tweet Kiss Clap Tuning fork? BAER—Brainstem auditory evoked (response) potentials Clients are impressed you have check, especially if they agree

Occult Exam: hearing No longer respond to a 'tweet': Cats > 15y Hypertensive cats Hyperthyroid cats Chronic middle ear disease Cats with unilateral obstructive external ear disease or middle ear disease may no longer localize sounds with the affected pinna

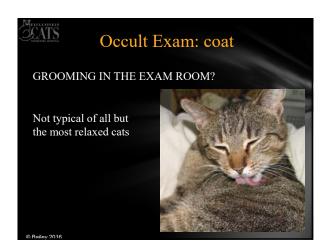














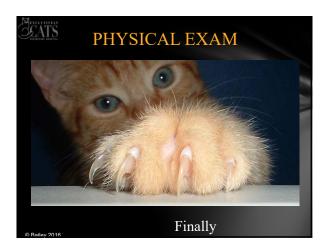
EXTS

Occult Exam:

PAIN, GAIT, POSTURE, & STANCE

- If after my PE, I need a better gait assessment, I will open the door and let the cat (the dogs) leave the room. Timid cats: I take 35' away (across the carpeted reception area) and let them walk back. Catnip toys help some cats.
- Keep the owners in the room (if you can)

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EATS

Physical exam: overview

- Feel the cat
- Examine the head, neck, and mouth
- Examine the front feet (more?)
- Examine & auscult the chest
- Palpate the kidneys (abdomen)
- Examine the eyes and ears
- Exam takes < 2 minutes

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Overt Exam I mentally set aside the review of history I have noted occult findings Finally...I touch the cat

Overt Exam I let the cat "talk to me" I "feel their energy" I don't believe in Voodoo, and auras... I really think it is the conscious act of clearing my head, paying attention, and tuning in

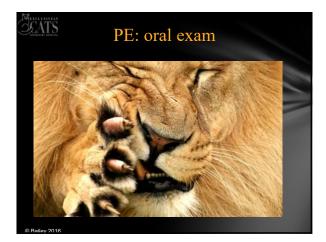


EXTS

PE: head & neck

- Place the cat in lap facing your dominant side (R), no talking, no stroking
- Lift their head to look at them, the only restraint may come from your L elbow
- At first, have your eyes a bit closed; then, open them...just a bit
- Examine more closely for symmetry and overt issues with the nose, eyes, ears and mouth

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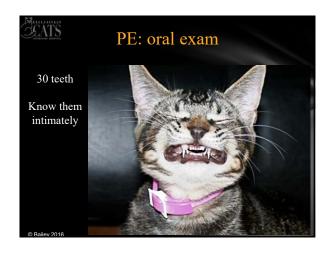


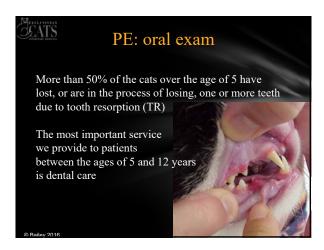
EXTS

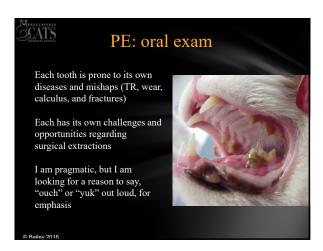
PE: oral exam

- Examine the mouth as closely as possible
- It is OK if they hiss
- Pawing is ok
- The first swat is usually ok
- If possible, do not have anyone restraining the cat, just you

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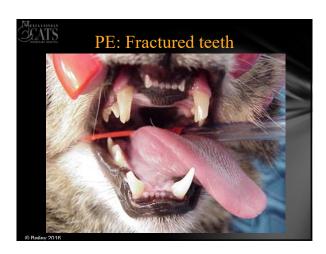






















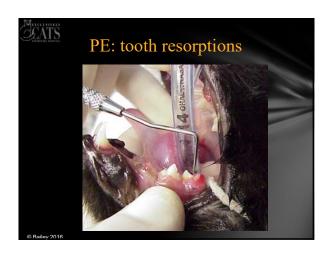








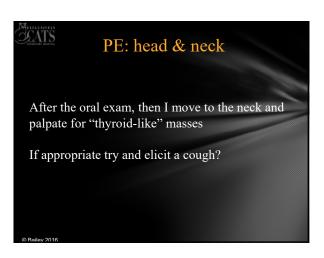


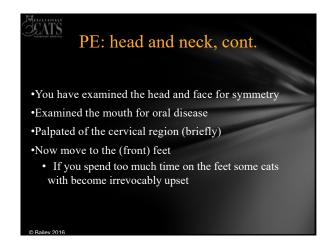
















PE: Respiratory rate and effort

- · Most of the observations of respiratory function (and listening for respiratory sounds) has already occurred during the occult examination
- Simultaneous with the exam of body mass, muscle mass & tone, their respiratory rate and effort is again assessed
- Assessing for eupnea (or dyspnea) is a process. Remain skeptical of your (first) assessments.

PE: Respiratory rate and effort

- Normal cats and cats having respiratory issues both have RR in the clinical setting of about 50 bpm.
- Chest excursions should be shallow and show minimal effort.
- Now, finally, you may auscult the chest...

PE: Respiratory noise & effort

- Usually coincide, not always
- Primarily inspiratory or expiratory?
- The big three noises:
 - stertor (common),
 - stridor,
 - Wheeze
- Do not order radiographs until you are sure of this

•Auscultation of

PE: Respiratory noise & effort

- •Auscultation of lung sounds in a eupneic cat is not very rewarding
- •In a cat with signs of respiratory disease, I listen more carefully
- •I particularly make a point of listening to airways sounds over the cervical region.

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PE: examine the chest

PURRING?

- Alcohol near the nose
- Running water
- Plug their nose
- Open the door (sounds, breeze, odors)
- Find another cat (dog?)
- Find a mean cat (seriously?)

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PE: examine the chest

Growling and Hissing?

- Placing your hand under these cats is a violation, and an invitation to bite
- I will lift the cat slightly off my lap with my nondominant hand, then set him back down on the stethoscope
- Squirmy, less aggressive cats I cup my hand over their head and eyes to settle them (e.g. ostrich)

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PE: the heart
•While the cat is in my lap, before I auscult the chest, I will feel the precordial pulse
•If I palpate any dropped beats, I may feel a bit longer and apply a bit more digital pressure
•Then I will auscult the heart
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PE: kidneys & abdomen
•When done ausculting the thorax remove the cat from your lap & return to the counter, facing away
•Ask the client to keep the cat from moving away, or jumping down
•Now, the primary goal is to palpate the kidneys first, and then I move on to the rest of the abdomen

ZATS	PE: kidneys & abdomen
	ninal disease is suspected, more palpation r under anesthesia (during imaging)

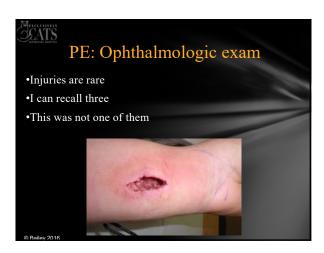
•If they void during bladder assessment, consider this a sign of LUTD

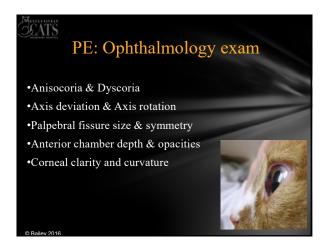
•When done with palpation, lift the tail and evaluate the anus, urogenital tract, and perineum

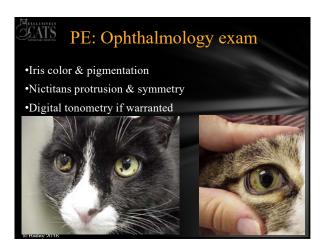
•Back to the front (for the eyes and ears)

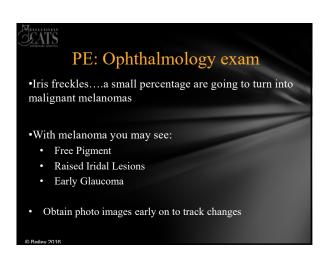
PE: Ophthalmologic exam •After abdominal palpation, spin the cat around to face you •Motion for the owner to "place one hand on the rump" (to prevent the cat from backing away), and "don't pet" •If the client (or staff) wraps their hand around the cat's trunk, the cat will most often squirm and try harder to get away

PE: Ophthalmologic exam •The direct ophthalmoscope was previously assembled and set to -3 diopters •Gently restrain the cats head with non-dominant hand and then face the cat (6"). Squinting or closing eyes as you approach •Again, continue to evaluate symmetry and reconsider prior assessments



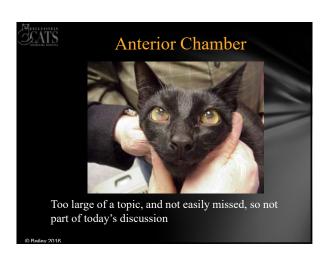


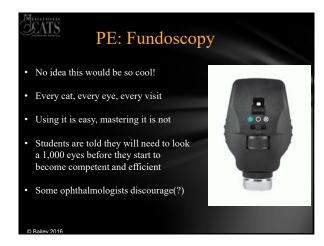




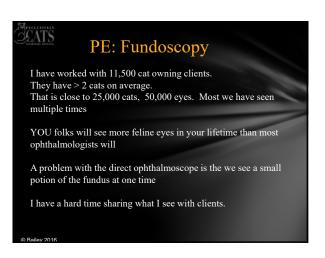




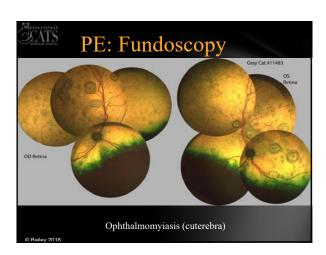


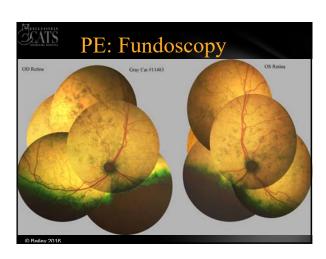


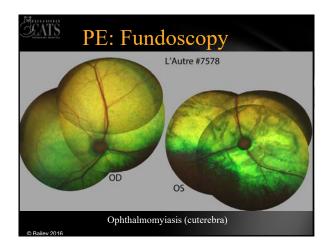


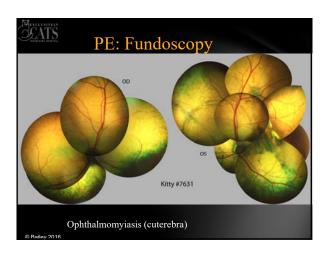


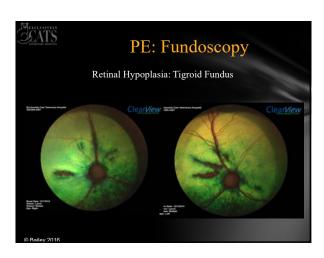


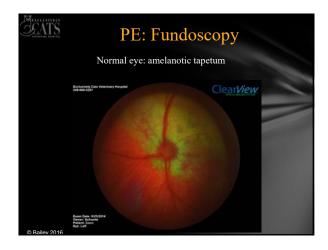


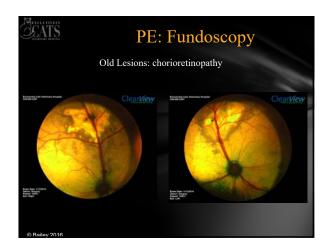


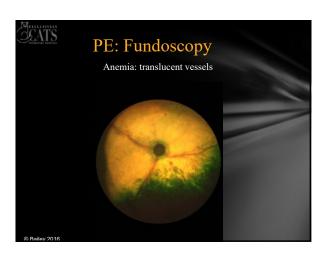


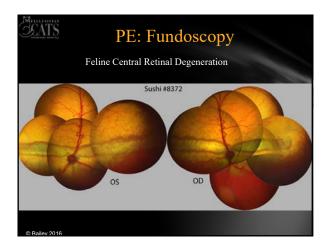


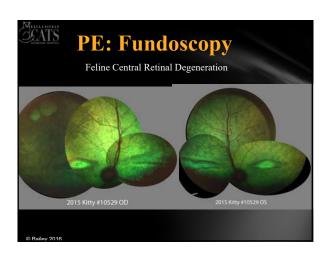


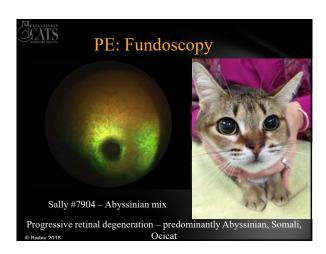


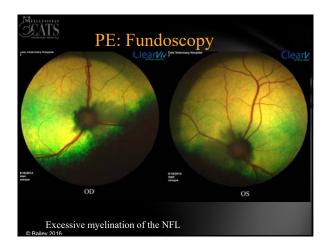


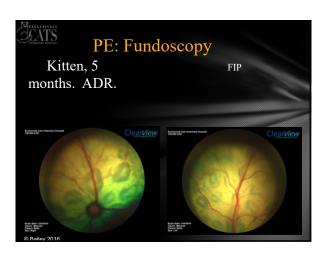


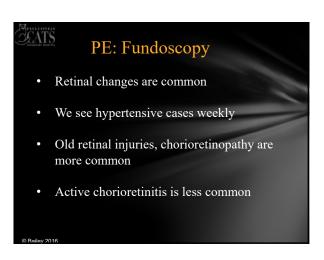




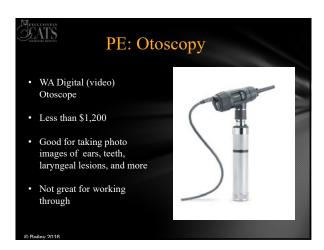


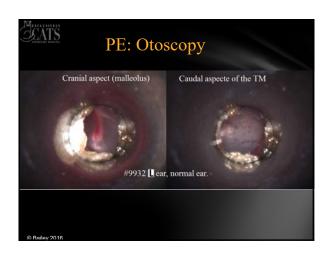


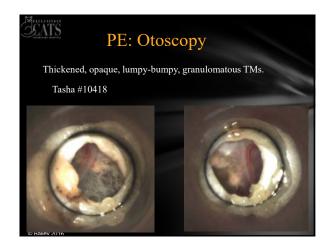




PE: Otoscopy No idea there would be so much to see! Every cat, every ear, every visit Using it is easy, mastering it is not Students are told they will need to look 1,000 ears before their exam is comfortable, and they are competent and efficient













C	Ceruminoliths: "the ear plug"
	ormed out of ceruminous secretions, exfoliated epithelial ells, dead mites
	ound either immediately, <u>or years later</u> following, eatment for Otodectes cynotis
TI	he plug is held in place:
٠	Gravity
	Negative pressure seal
•	Stickiness
•	Conformation "like a glove"

	Summary
	ER + MPL = heart and soul of our EMR
	Occult exam can be more important than the PE
•	Be aggressive finding & treating dental disease both young and old cats
•	Be proactive about looking for (& treating) hypertension
•	Every cat, every visit: • Every eye • Every ear • Every kidney
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