

Don't leave me this way! How to approach canine separation anxiety

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Session sponsor: VetStrategy



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This presentation contains many various examples of products

The presenter **IS** affiliated with one company (Calmer Canine, Assisi Animal Health) without any financial disclosures





Recognize canine separation anxiety

Learning Objectives



Separation anxiety vs other diagnoses



Design a treatment plan

Terms and definitions vary amongst experts

Separation Anxiety

Separation-related disorder

Separation-related distress

Isolation distress



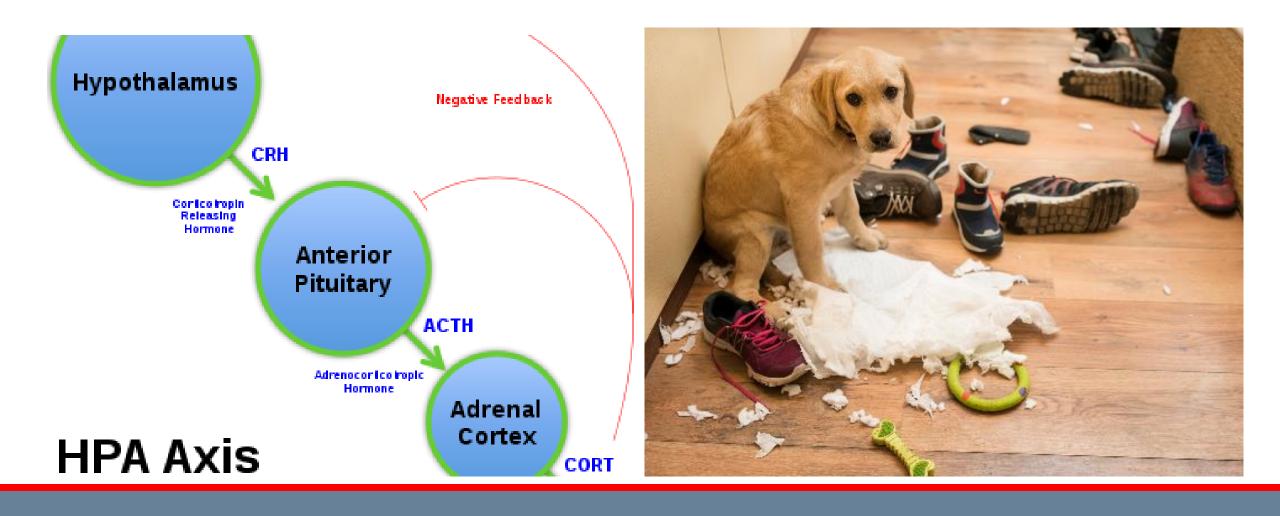
Other species may also have separation anxiety

Schwartz S. Separation anxiety syndrome in cats: 136 cases (1991-2000). *JAVMA* 2002

Schwartz S. Reference point: separation anxiety syndrome in dogs and cats. *JAVMA* 2003



Canine separation anxiety (SA) is anxiety with owners absence (real or virtual)

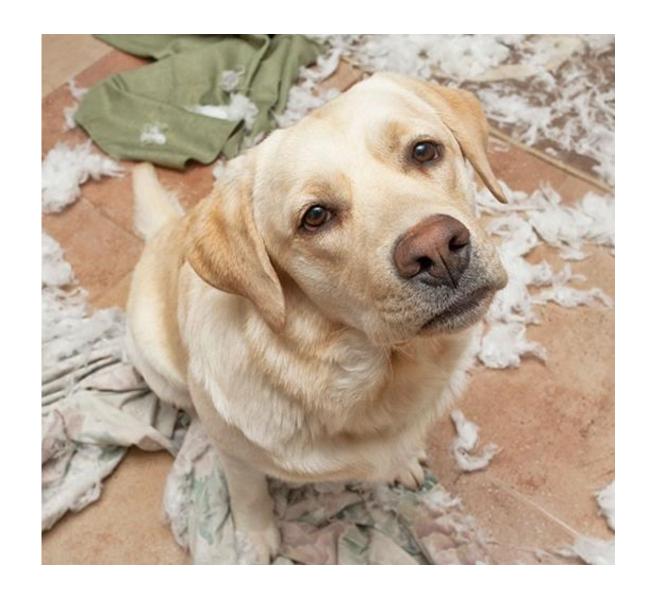


Physiological & emotional distress in anticipation or actual absence



Influencers of SA include selective breeding, early experiences, & learned behavior

Prevalence



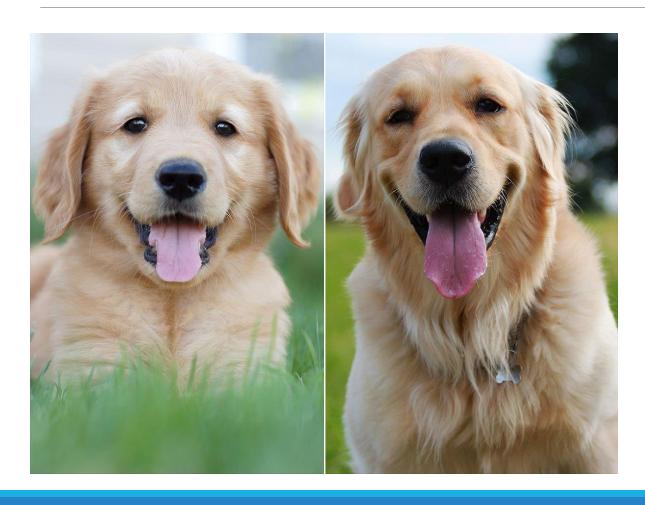
Separation anxiety is a very common behavior disorder

Scope of the problem

Canine separation anxiety (SA) is anxiety with owner's absence (real or virtual) affecting 14-20% dogs

Ballantyne KC. Vet Clin North Am Small Anim Pract. (2018)
Bamberger M, Houpt KA. Am Vet Med Assoc. (2006)
Blackwell E, et al. Vet Rec. (2006)
Storengen LM, et al. Appl Anim Behav Sci. (2014)
McGreevy PD, Masters AA. Appl Anim Behav Sci. (2008)

SA can occur in any age, breed, or sex



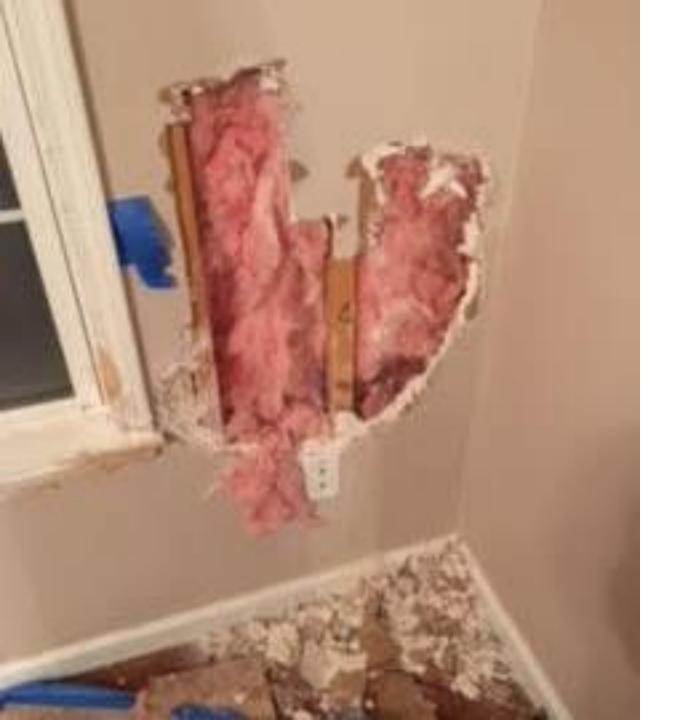
55% of dogs show signs before 3 years of age

Horwitz & Neilson, Blackwell 2007

There may be some predisposing factors:

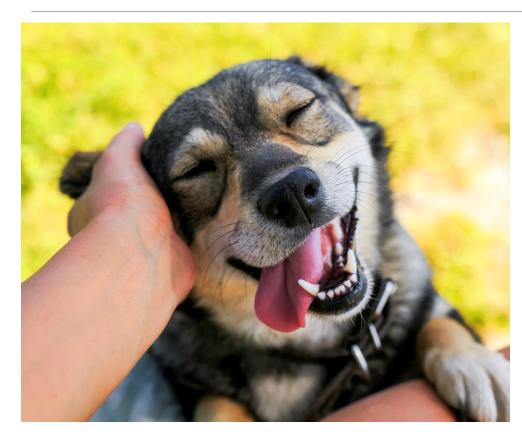
- Neutering
- Lack obedience training
- Adoption (shelter/rescue/stray)
- Left alone for extended time
- Changes in home
- Single-owner households
- Hereditary

Horwitz & Neilson Blackwell 2007 Flannigan & Dodman. JAVMA 2001 Clark & Boyer AABS 1993 Blackwell et al. JVB 2008



Owners may misinterpret anxiety as "spite"

Educating that not due to pet anger, too much love, boredom, or dominance





Appleby & Pluijmakers VCNA 2003 Flannigan & Dodman JAVMA 2001



SA may be under-diagnosed due to subtle signs

AS FEW AS 13% OF OWNERS MAY SEEK ASSISTANCE

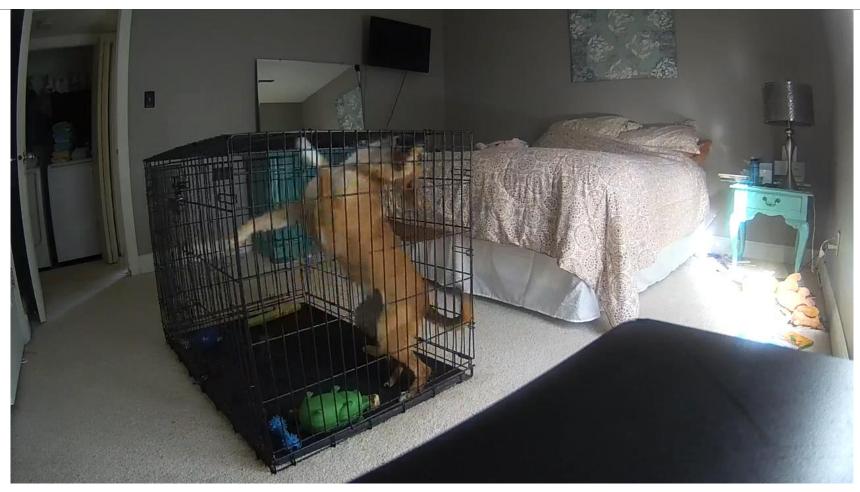
Simpson BS. Canine separation anxiety Compend Cont Educ Pract Vet 2000

Subtle signs contribute to underdiagnosis



Simpson BS. Compend Cont Educ Pract Vet 2000 Palestrini C, et al. *Appl Anim Behav Sci.* (2010) Cannas S, et al. *J Vet Behav.* (2014) Scaglia E, et al. *J Vet Behav.* (2013)

SA is a welfare issue for dog and client



Clinical Signs

Nonspecific clinical signs

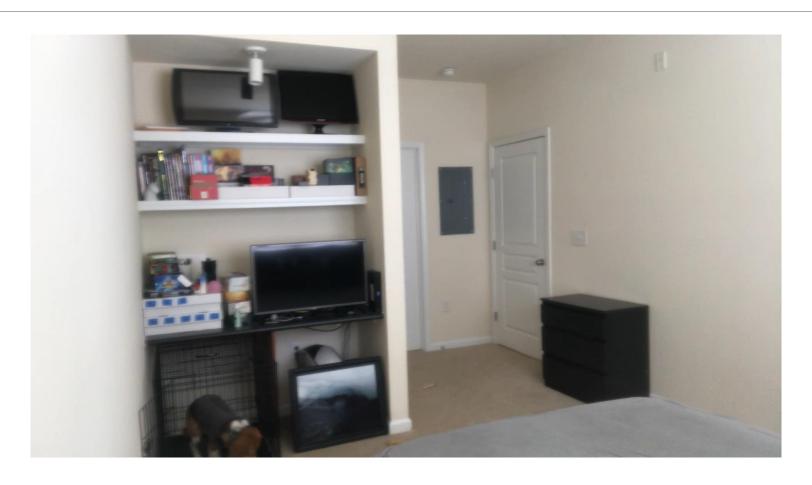
- Vocalization
- Destruction
- Elimination
- Hypersalivation
- GI changes
 - Anorexia
 - Vomiting
 - Diarrhea

- Escape attempts
- Pacing/motor activity
- Fearful postures
- Aggression
- Self-mutilation
- Exaggerated greetings

Signs may begin before departure

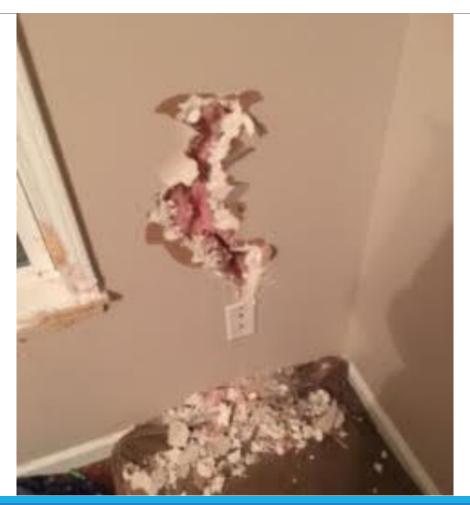


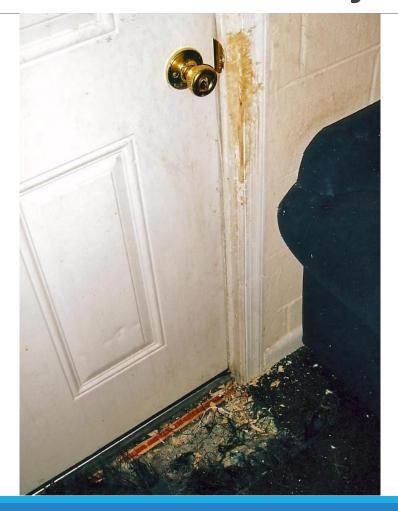
Signs occur within minutes of departure, may wax/wane or continue unabated

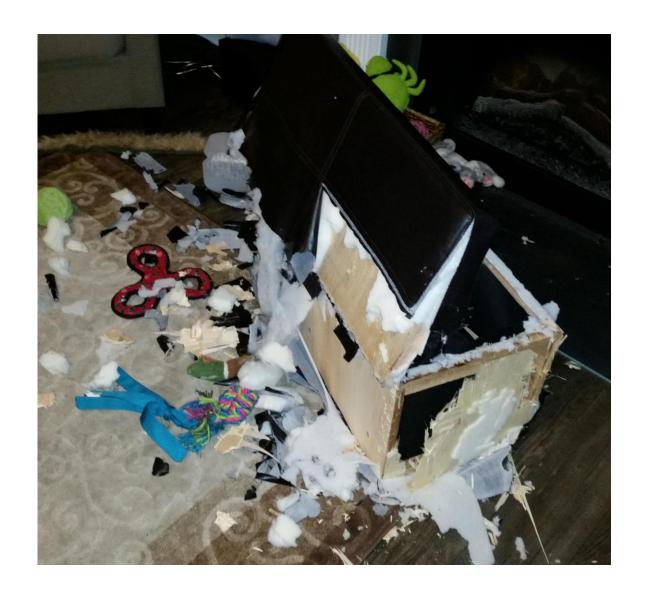


Destruction

Destruction is focused on exits or objects







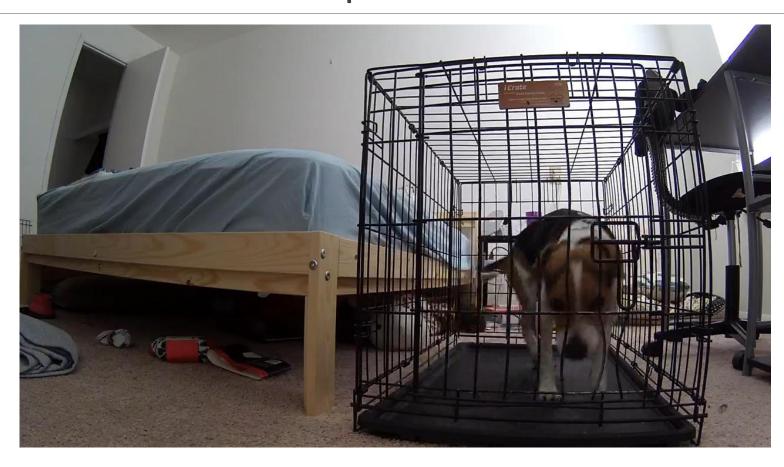
Chewed objects are associated with owner

Confinement may limit destruction but intensify anxiety and escape attempts

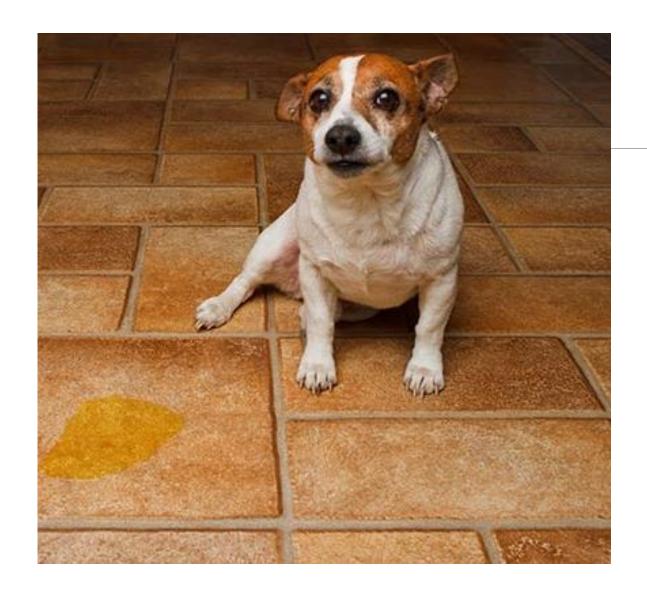


Vocalization

Anxious vocalization can be persistent and risk noise complaints

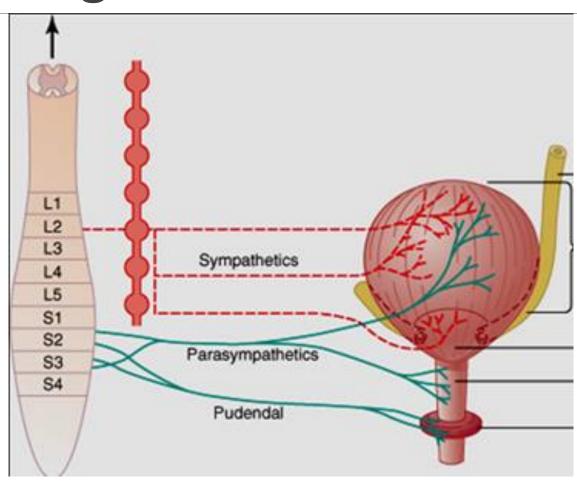


House Soiling

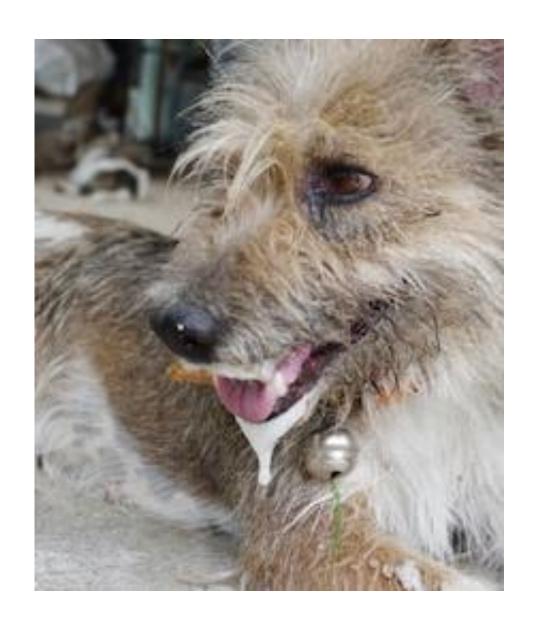


House trained dogs may eliminate when anxious

House soiling is due to autonomic arousal



Hypersalivation

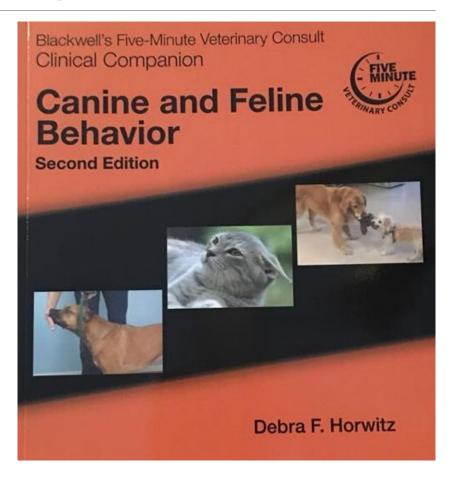


Hypersalivation can be extensive & may be pathognomic

Diagnosis

Gather information for diagnosis

- Response to owner departure
- Response to owner return
- Changes at onset of problem
- Screen for other anxieties









Rule out SA differentials

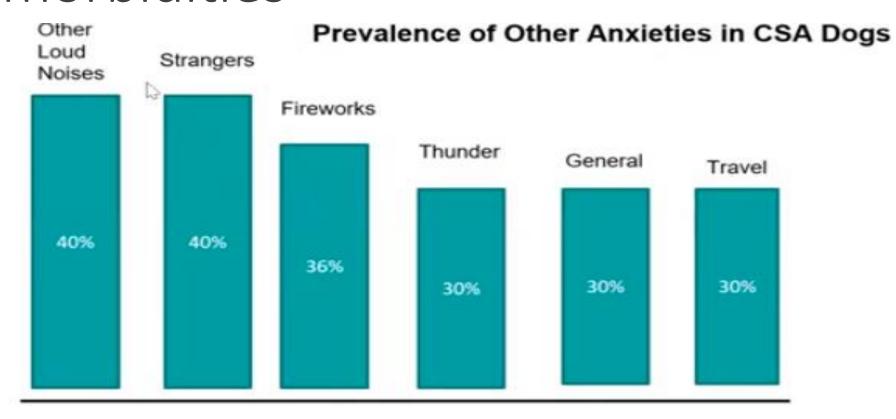
- Not exclusive with departures/alone
- Only occur with other events (storms)
- Only occur when confined

Comorbidities



SA / Noise phobia / Confinement distress

Comorbidities



Source: Assisi Animal Health Dog Owner Survey 2020

Screening diagnostics include:

Physical exam



· Video of Chavior when a lone







Many ways to capture and send videos

Video is required for accurate diagnosis



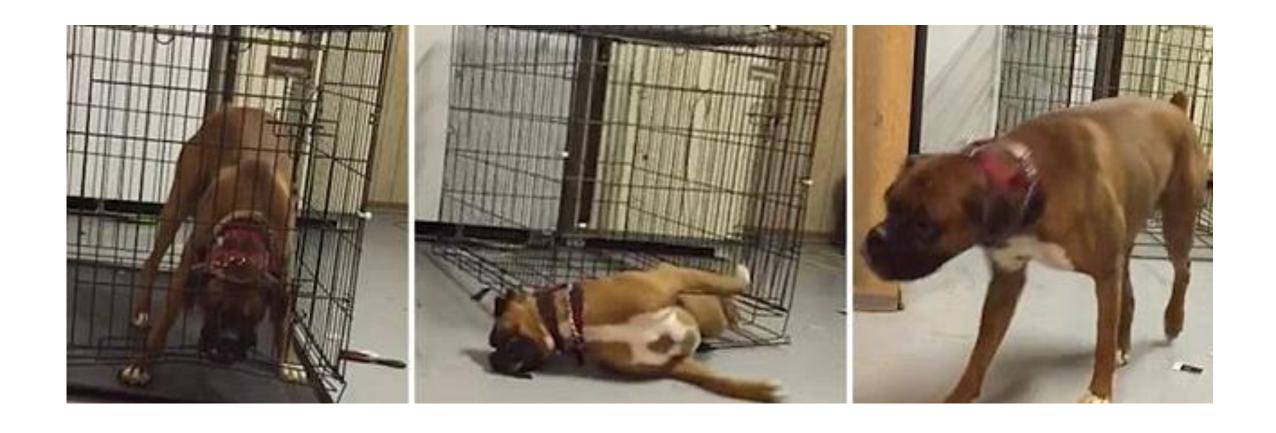
Palestrini C et al. Video analysis of dogs with separation-related behaviors. AABS 2010

Video provides baseline for comparison





Treatment



Treatment delay compromises welfare

5 M's of Treatment Approach:

M Medical

M Motivation

M Management

M Modification

M Medication

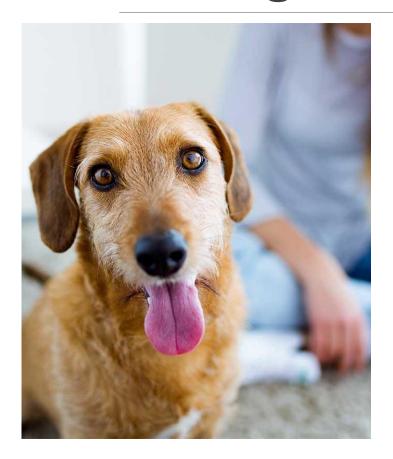


5 M's of Treatment Approach:

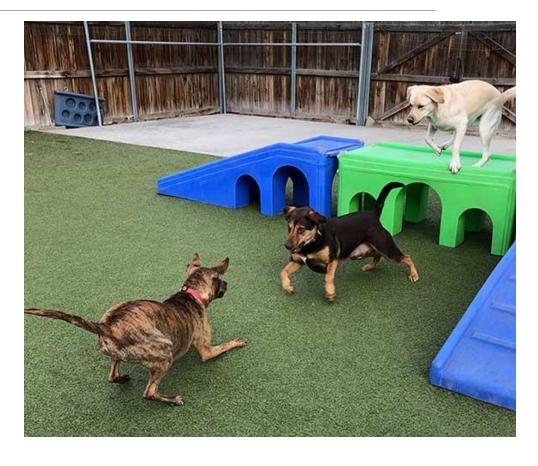
- M Medical ruled out or treated
- M Motivation reunited with attachment figure
- M Management
- M Modification
- **M** Medication

Management

Management: goal to avoid rehearsal



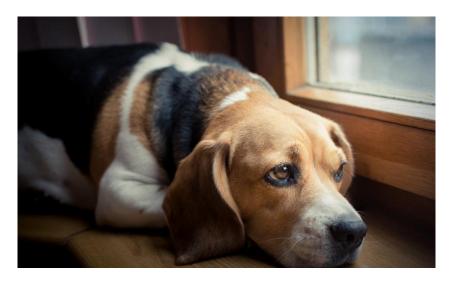




If left alone, minimize departures







Minimize environmental stressors





Remove triggers of clinical signs







Melese AABS 1994



White noise may buffer external stimuli

Provide for needs and a safe place

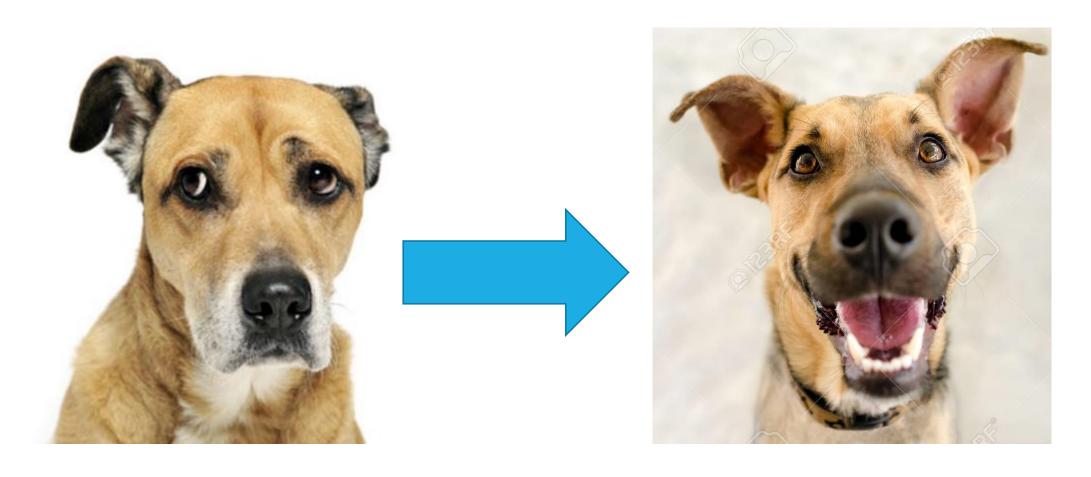


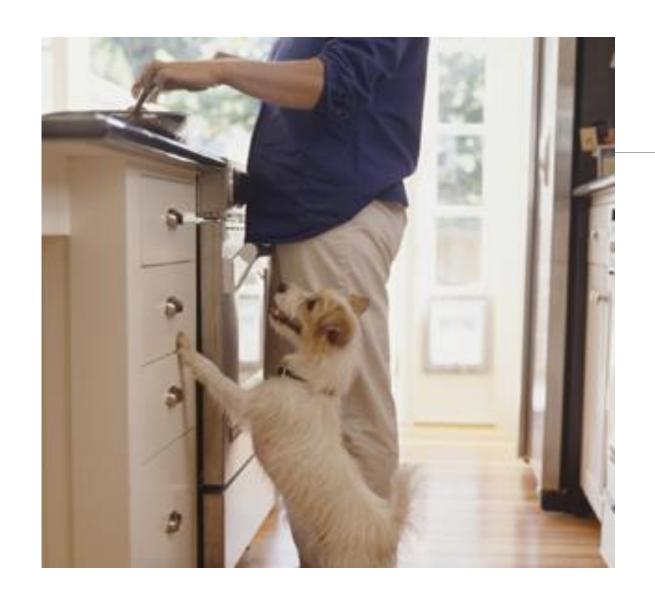




Modification

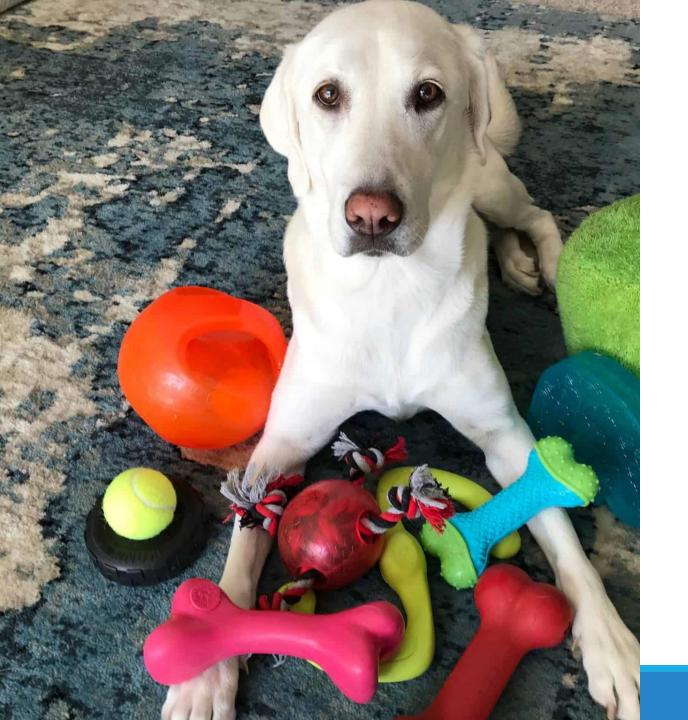
Modification: goal to change emotion





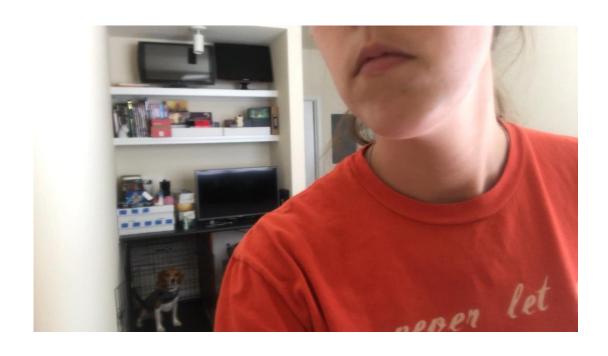
No Big Deal:

low key departures & arrivals



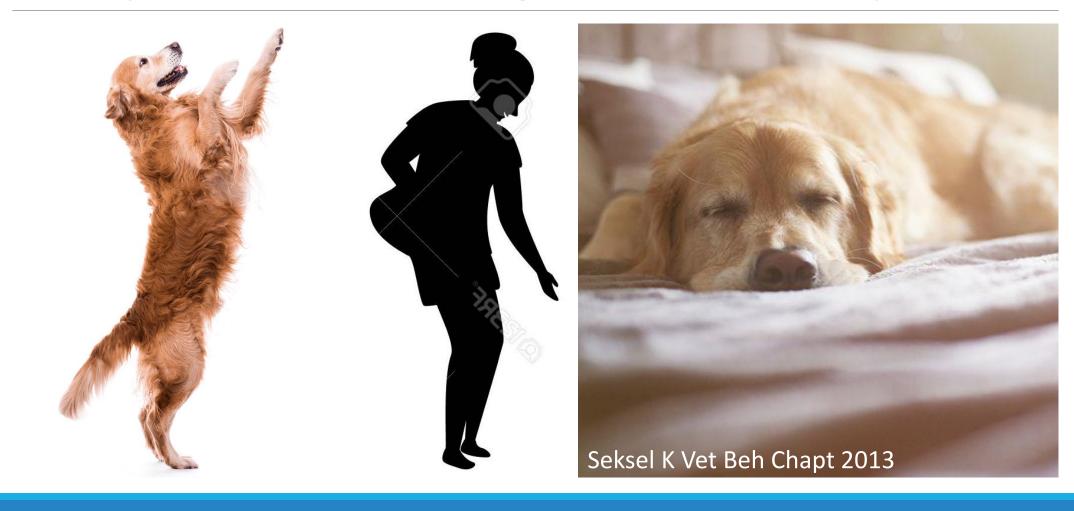
Countercondition with Puppy Disneyland

Coping skills include independence & diffusing departures/arrivals

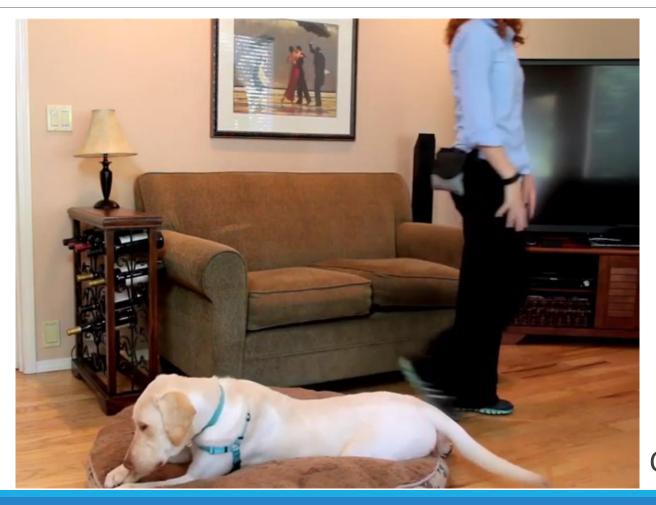




Independence changes relationship

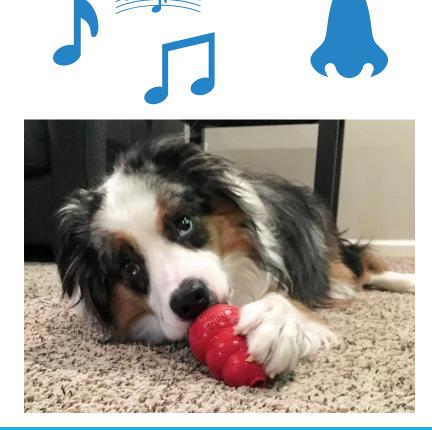


Build distance/time away with rewards



Clark & Boyer AABS 1993

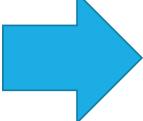
Cautiously controlled planned training departures (don't go too fast!)





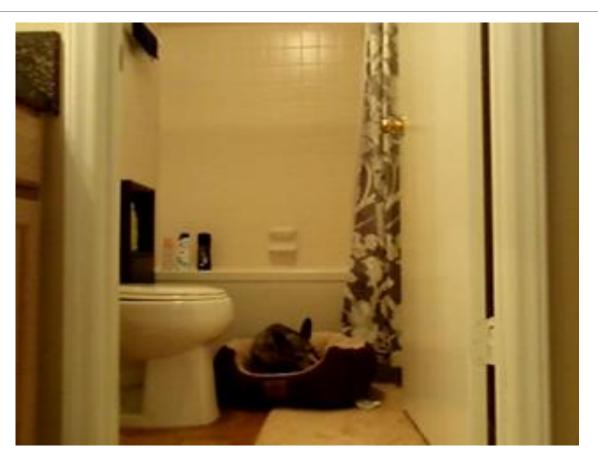
Punishment is contraindicated





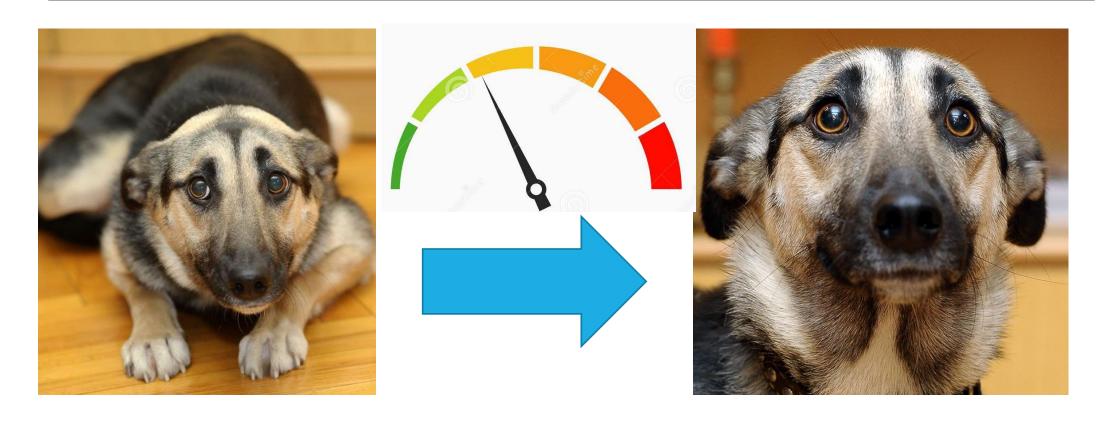


Management + Modification



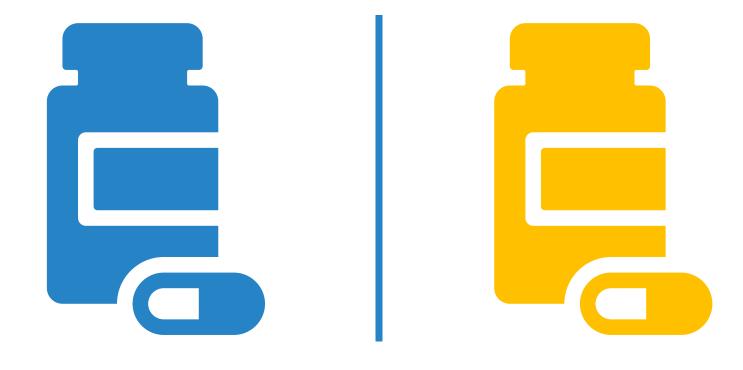
Medication

Medication: goal to decrease anxiety



"Medication" go beyond pharmacology





Polypharmacy may improve welfare

Some FDA labels, but most are extra-label





Reconcile® (fluoxetine hydrochloride)

Treat the patient, not the diagnosis





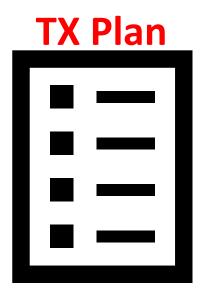




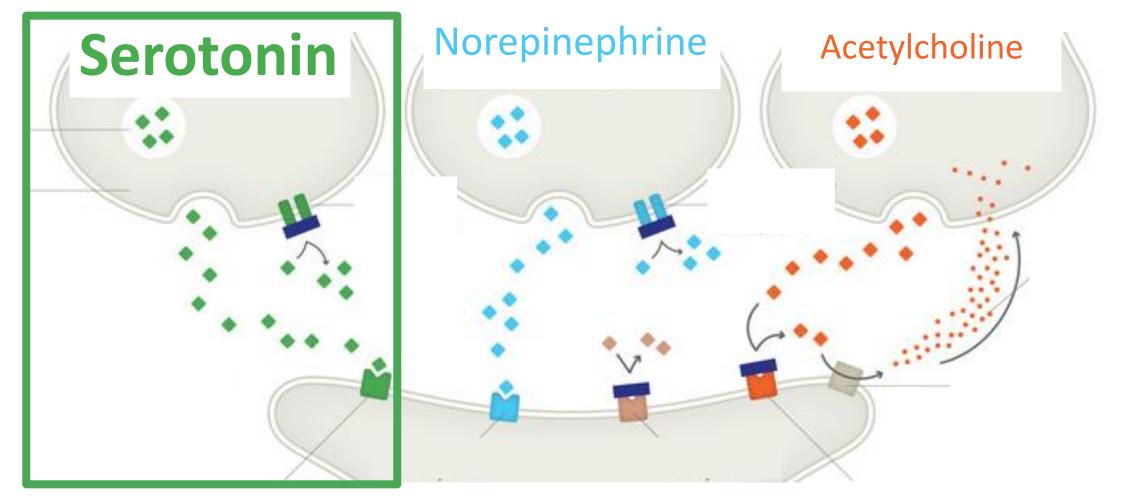
Clomicalm: FDA label requirements APPR

- DX: canine separation anxiety
- Combined with treatment plan









Clomicalm = tricyclic antidepressant (TCA)

Faster and greater improvement



King et al. AABS 2000 King et al. AABS 2004

Clomicalm dosing information

- Dogs >6 months of age
- Dose: PO 2-4mg/kg/day (split dose)
- 4-6 weeks to effect
- Side effects: lethargy, vomiting
 - Reduce vomiting risk: give with food



Caution with other serotonergic agents

Other Tricyclic Antidepressants (TCA)
Selective Serotonin Reuptake Inhibitors (SSRI)
Serotonin Antagonist & Reuptake Inhibitor
Monoamine Oxidase Inhibitors (MAOI)

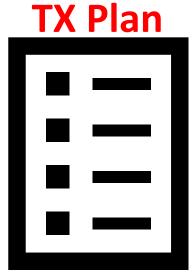
Reconcile® (fluoxetine hydrochloride)



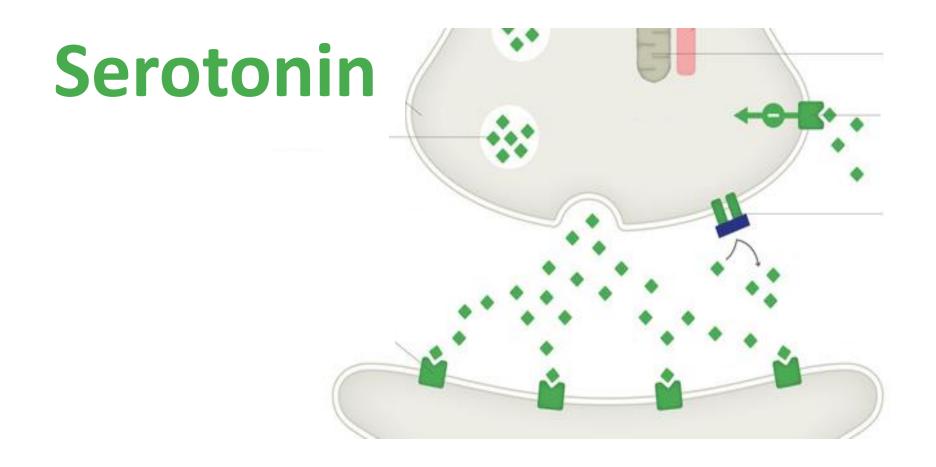
Reconcile: FDA label requirements

- DX: canine separation anxiety
- Combined with treatment plan



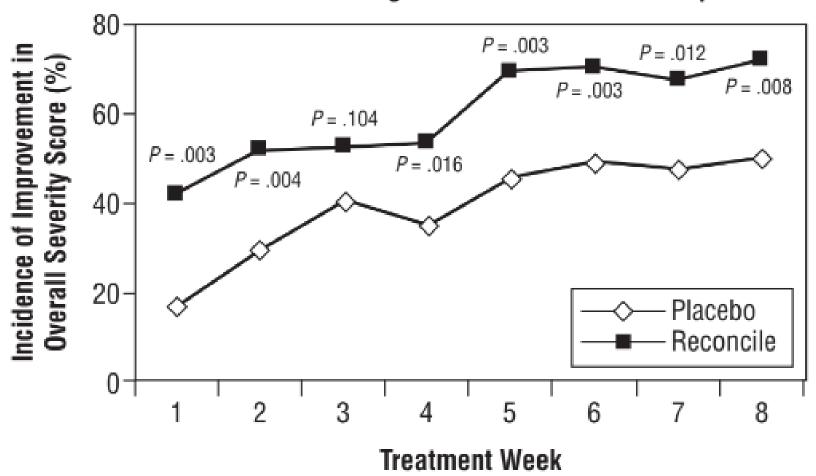






Reconcile = selective serotonin reuptake inhibitor (SSRI)

The Percentage of Dogs with Improved Overall Severity Scores Was Highest in the Reconcile Group



Faster and greater improvement

Simpson et al. Vet Therapeutics 2007 N=229

Reconcile dosing information

- Dogs >6 months of age
- Dose: PO 1-2mg/kg/day
- 4-6 weeks to effect
- Side effects:
 - Lethargy
 - hyporexia



Caution with other serotonergic agents

Other Selective Serotonin Reuptake Inhibitors (SSRI)

Tricyclic Antidepressants (TCA)

Serotonin Antagonist & Reuptake Inhibitor

Monoamine Oxidase Inhibitors (MAOI)

Other Pharmaceuticals

Everything else is "extra-label"

Clomipramine Amitriptyline

Fluoxetine
Fluvoxamine
Sertraline
Paroxetine

Trazodone

Gabapentin

Benzodiazepines

Alpha2 agnoists

Short acting anti-anxiety medications for distressing events (ie departures)

Trazodone

Gabapentin

Benzodiazepines

Alpha2 agonists



Ace is only to sedate

Adjunctive Therapies

Non-pharmaceutical options vary



Nutraceuticals



Dog-Appeasing Pheromone



The Anxiety Wrap

Nutraceuticals for other types of anxieties

L-theanine



L-theanine With other things



Alpha-Casozepine





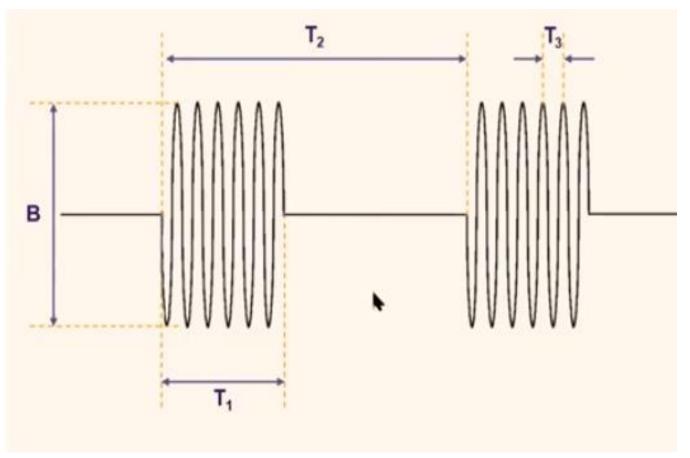
Adaptil (CEVA) may benefit canine SA

Gaultier et al. Vet Rec 2005



Pressure wraps may benefit anxious dogs

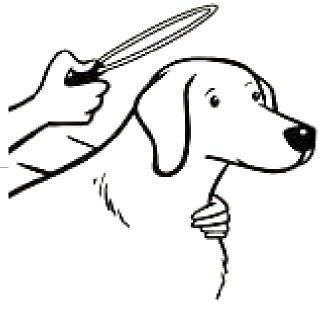
KING ET AL. JVB 2014

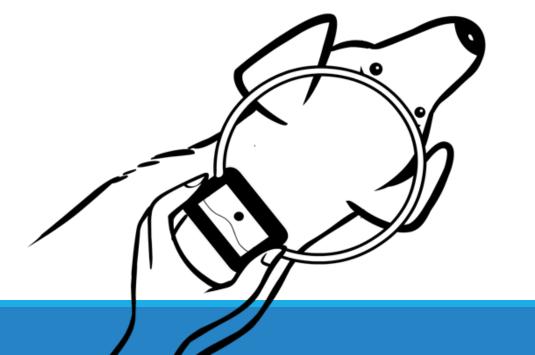


Pulsed electromagnetic field (Calmer Canine) improves SA

Gruen Proceedings Int Vet Beh Sym 2019 Pankratz, et al. PLOS one 2021







Device application

- ➤ Coil positioned at base of the skull
- duration of 15 minutes /
 treatment
- > Repeat twice daily

Adverse Events

- ➤ Non-specific
- ➤ Vomit, diarrhea, ocular d/c, cough

PEMF Results for SA (Tx vs placebo)

- ➤ Difference in mean negative behaviors
 - > not significant at week 4
 - >significant at week 6
- >Success defined as improvement in positive behaviors (IE
- + PA) by 100% or more
 - > Week 4: (Z=2.83, p=0.005)
 - > Week 6: (Z=1.65, p=0.098)
 - >Overall: (Z=1.99, p=0.047)

Treatment effect example:



If progress or response not achieved within an acceptable timeframe \rightarrow refer



Resources

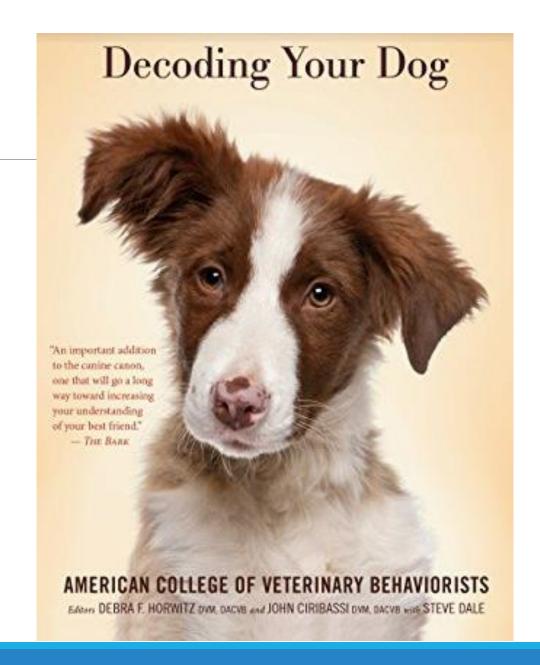
Client-geared resources

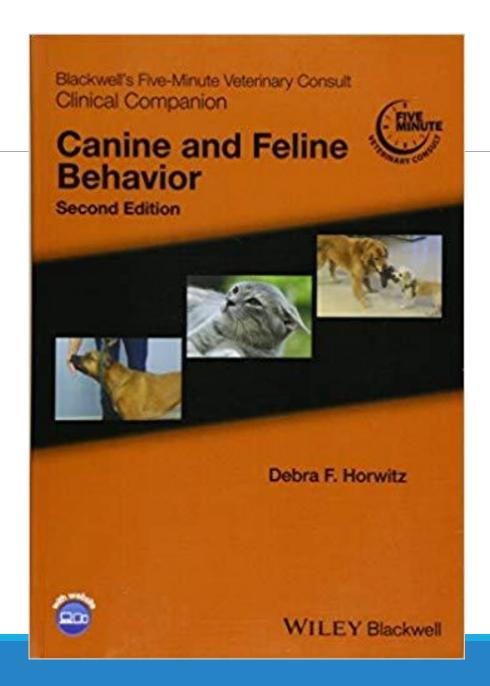
Patricia B. McConnell, Ph.D.



I'll Be Home Soon!

How to Prevent and Treat Separation Anxiety

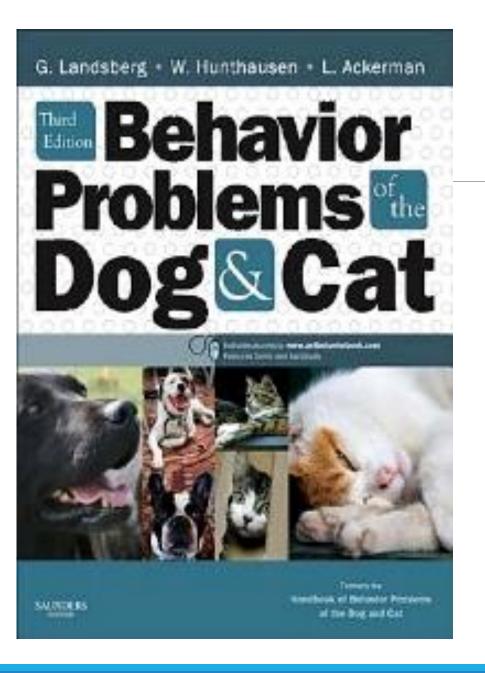




Blackwell's 5 minute

Canine & Feline Behavior

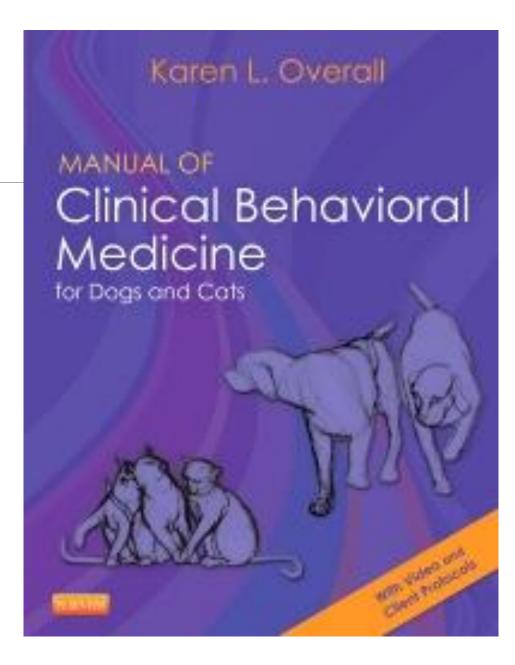
By Debra Horwitz



Landsberg

Behavior
Problems of the
Dog & Cat 2013

Overall
Manual of
Clinical
Behavioral
Medicine 2013





Thank you!



<u>drpankratz@animalbehaviorclinic.net</u> www.AnimalBehaviorClinic.net