#### DISEASE OVERVIEW:

In-home compassionate pet care at life's end

- Cognitive dysfunction syndrome (CDS) is a neurological degenerative disorder of senior dogs and cats characterized by gradual cognitive decline and increasing brain pathology. Elderly animals are less able to perform a variety of tasks. Progression of the disease is very gradual and owners may fail to recognize the dysfunction is happening. Cognitive dysfunction may also be a manifestation of inherited, neurodegenerative diseases, such as breed-related storage diseases.

## DISEASE TRAJECTORY:

Cognitive Dysfunction often follows Trajectory 3 (prolonged dwindling) with a very slow and gradual decline of frailty.

### PALLIATIVE CARE GOALS:

- Manage anxiety and comfort
- Allow for sleep (patient & family)
- Manage hygiene and house soiling

### COMFORT KIT:

- Manage acute anxiety and comfort
- Potentially address seizure risk
- Allow family to rest

### KEY TALKING POINTS:

- Clinical Signs: DISHA- disorientation, changes in social interaction, changes in sleep-wake, house soiling, changes in activity level and anxiety

- Diagnosis of exclusion and clinical suspicion

-Cognitive dysfunction can require intense caregiving and can strain the human animal bond significantly. It will likely require discussion of emotional distress vs physical distress in both the patient and family. Quality of Life should be discussed relative to both patient and family.

# POSSIBLE SEQUELA & COMORBIDITIES:

Since it is one of the most common (and under-diagnosed) conditions we see, cognitive dysfunction often does present with other comorbidities. The most common concerns affecting treatment include:

- **Arthritis/Pain:** Immobility and pain can both exacerbate and cause anxiety to worsen. Utilizing adequate pain management can help significantly reduce related anxiety.

- **Anxiety**: Disorientation and changes in the main senses can cause or worsenpre-existing anxiety. Utilizing our anxiety treatment options can be very helpful- especially with night waking.

- **Reflux esophagitis**: Esophagitis can cause anxiety and pacing and tends to be worse at night. It can be helpful to treat empirically with omeprazole +/- metoclopramide at bedtime to aid pets in settling and sleep..

- **Seizures**: Seizures are rarely reported, but can be seen in the later stages of aging brain changes. Midazolam could be included in a comfort kit if concerned.

	Pathways In-home compassionate pet care at life's end	
	NUTRITION & NUTRACEUTICALS:	
<u>PHARMACEUTICAL SUPPORT:</u>	Brain Health/Neuro Diets	
Antacids: Famotidine, Omeprazole, Ranitidine	Omega FA- Grizzly, Welactin	
Selegiline (more success if started very early in disease)	<ul> <li>NutriCalm- Rx Vitamins for Pets</li> <li>SamE</li> <li>Purina Calming Care (probiotic)</li> <li>Lion's Mane mushrooms</li> </ul>	
Gabapentin (improves REM sleep)- can be only used at night		
Trazodone	Apoaequorin- Neutricks (off market), Prevagen (some concern for Vet D content)	
Melatonin: Give right before bed, usually lasts 8 hours.	<ul><li>Cell Advance 440 or 880 (based on pet size)</li><li>Selliquin/Composure Pro/Calming Treats</li></ul>	
Alprazolam, Diazepam, Lorazepam	Valerian Root	
<b>NOTES:</b> Make sure pain management for co- morbidities is adequate.	<ul> <li>CBD- Ellevet Calm &amp; Comfort Chews</li> <li>Senilife (<i>Gingko Biloba, Reservatrol, others</i>)</li> <li>Zylkene</li> </ul>	
	PHYSICAL MEDICINE:	
NON-PHARMACEUTIAL SUPPORT:	<ul> <li>tPEMF: Assisi Canine Calmer 2-4x daily</li> <li>Exercise- 30 min walking/swimming per day</li> </ul>	
TCVM: <u>Herbal Medications</u> : Shen Calmer, Stasis in the Mansion of the Mind, NutriHerb Bright Mind	Massage Thundershirt	
	OTHERS:	
Acupressure/Acupuncture: An Shen, HT 7, GV 20, GV 14, Bai Hui , ST	Mental Enrichment- feeding puzzles, hidden toys, grooming activities	
40	Pheromone collars, sprays, diffusers	
<u>Food Therapy:</u> cooked, whole foods with	Rescue Remedy (dose based on stress level)	

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Music therapy- PetSounds, Harp music

Reiki	therapy
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Tui-na massage

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