

Cognitive Health with CogniPro

Cognitive Dysfunction Syndrome

Numerous scientific studies have confirmed that oxidative damage and nutritional deficiencies often leads to cognitive dysfunction and memory decline in our aging dogs and cats. The scientific term used to describe this decline is Cognitive Dysfunction Syndrome (CDS).

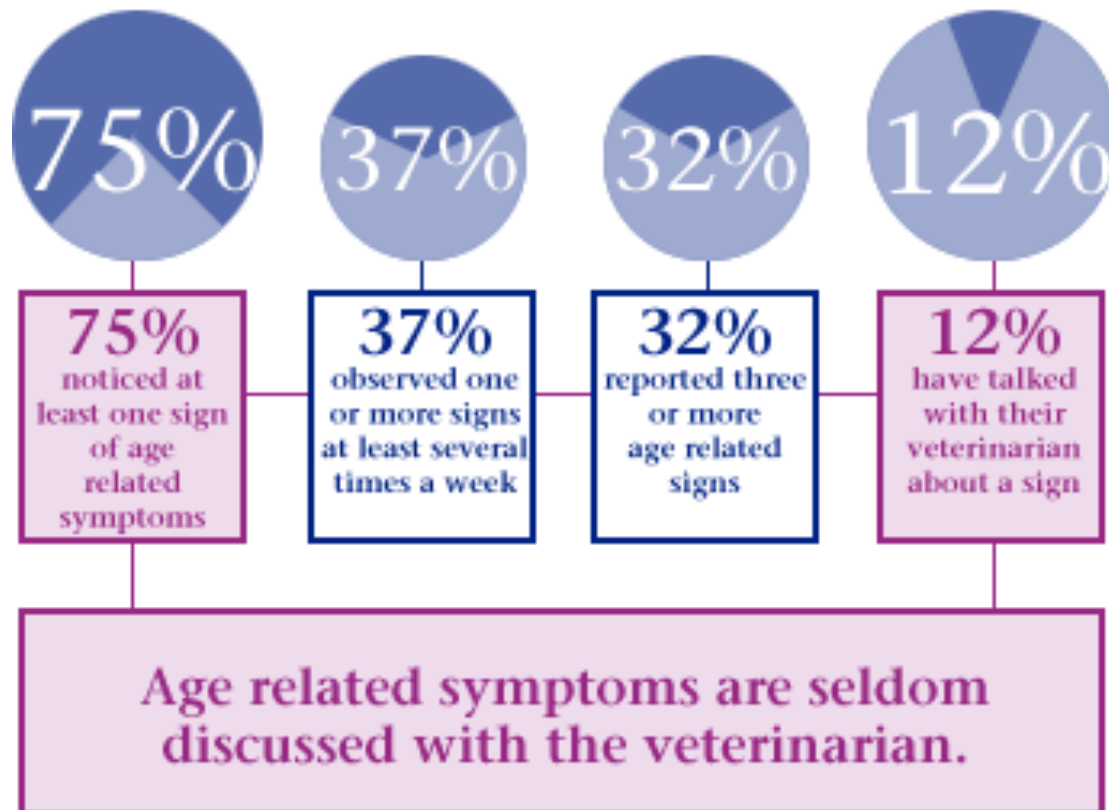
The primary cause of CDS can be either biological and/or nutritional. It's a fact that aging is associated with a decreased absorption of nutrients needed to nourish the brain. Aging also brings an increase in oxidative stress due to additional free radical attacks that damage the protein, lipid and nucleotide structures of the brain.



The initial symptoms of CDS can be mild and are often written off as normal signs of aging. These signs will gradually worsen over time and is commonly called “cognitive decline.”

CDS is not as well recognized in cats due to their obscure nature. It has been estimated that 28 percent of pet cats aged 11-14 years develop at least one age related behavior problem and this increases to more than 50 percent for cats over the age of 15.

The overall incidence of CDS in dogs has been reported as seen below. Unfortunately, most of the observed signs are not brought to the attention of veterinarians. Many of which are treatable and in many cases even reversible.



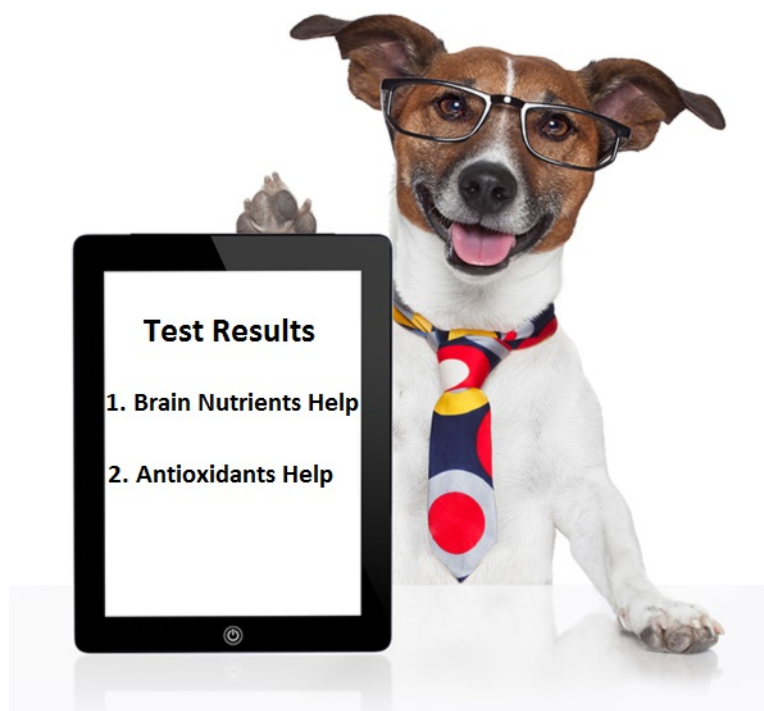
Clinical Signs of CDS

As the brains of the dog and cat decline, behavioral signs related to CDS appear. Some of these signs to look for are:

- Changes in awareness or response to stimuli
- Disorientation and confusion
- Inability to follow familiar routes
- Anxiety (restlessness or irritability)
- Loss of appetite
- Decreased desire to play
- Excessive licking in cats
- Fecal or urinary incontinence
- Changes in sleep patterns
- Inability to learn new tasks
- Unresponsive to previously learned commands

Free Radicals & Brain Damage

The scientific link between aging, neuronal degeneration and free radicals provides an interesting hypothesis – Would reducing oxidative damage in the brain throughout the life of the dog and cat decrease



the incidence of CDS.

A second question that often comes to mind – Once CDS becomes apparent, would the feeding of brain nutrients and antioxidants prevent further decline or even reverse the cognitive dysfunction behaviors?

To test the relationship of CDS and oxidative damage, a scientific study was conducted. First, the results of base line cognitive tests between young dogs and aged dogs showed the older dogs did significantly worse in all phases of the test. Additional tests were conducted on equal numbers of old dogs that had no differences in their cognitive ability. This group of dogs was split into two groups – one group being fed an antioxidant rich diet for six months while the other was fed the same diet without the antioxidants. The results showed that the antioxidant rich diet group scored significantly fewer errors on the more difficult tasks tested. The antioxidant rich group also showed improvements in spatial attention, visual discrimination and reversal learning along with reduced protein oxidative damage and plaque accumulation in the brain.

Cognitive Function



Support

Obviously, preventing the onset of CDS would be best. I wholeheartedly believe in prevention over treatment.

Here is my recommendation to prevent the onset or to slow the decline once signs begin.

The dog and cat brain must receive nourishment every day in order to stay healthy. This requires that blood flow to the brain remain optimal and neurotransmitters such as acetylcholine function properly. Optimal brain health also requires that free radical events affecting brain tissues be kept at a minimum.

Science has repeatedly demonstrated that nutrition is the key to a longer and healthier life. Laboratory and clinical studies have shown that providing a biologically appropriate diet containing optimal levels of all essential nutrients and further supplementing with specific brain nutrients and antioxidants supports normal brain function in the dog and cat.

Maintaining our dogs and cats in a healthy and stimulating environment also helps maintain normal cognitive function throughout

life. Providing mental stimulation during the developmental period and beyond will push back the cognitive signs of aging. Brain teaser toys, obedience training, agility events or any of the activities we can do with our dogs will help keep them mentally alert.

Reducing the risk of developing neurodegenerative disease may be as simple as providing your pet with physical exercise, social engagement, cognitive-enhancing activities and an adequate intake of dietary antioxidants and brain nutrients.