



勝利動物醫院  
Victory Animal Hospital

## Victory Animal Hospital

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## Vestibular Disease in Dogs

### What is vestibular disease?

The vestibular system is responsible for maintaining normal balance. The vestibular system has central components located in the brain, and peripheral components located in the inner and middle ear.

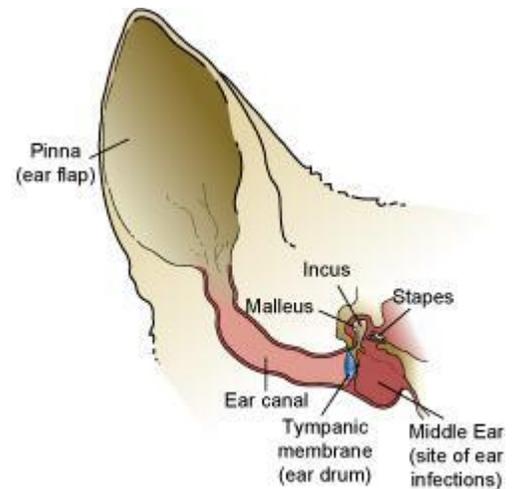
Vestibular disease refers to a sudden, non-progressive disturbance of balance. It is more common in older dogs. It is also referred to as *old dog vestibular syndrome* and *canine idiopathic vestibular syndrome*.

### What are the clinical signs of vestibular disease?

Most dogs present with the sudden onset of loss of balance, disorientation, head tilt and irregular jerking eye movements called *nystagmus*. Many dogs will become reluctant to stand or walk. Most dogs will lean or fall in the direction of their head tilt.

### What causes vestibular disease?

Causes of vestibular disease include middle or inner ear infections, drugs that are toxic to the ear, trauma or injury, tumors and hypothyroidism. When no specific diagnosis is found, the condition will be called idiopathic vestibular syndrome. These cases are distinguished by the sudden onset of clinical signs and the subsequent rapid improvement with little, if any, medical intervention.



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### How is vestibular disease diagnosed?

Diagnosis is based on medical history, clinical signs, and the results of blood and urine tests. In some cases, diagnostic testing will include radiographs of the head to assess the appearance of the middle and inner ears and the tympanic bullae. Occasionally, magnetic resonance imaging (MRI) or computed tomography (CT) scans will be performed to look for tumors or other abnormalities. Brainstem auditory evoked response (BAER) testing may also be performed in some patients.

The criteria for diagnosing canine idiopathic vestibular syndrome are:

1. Older dog
2. Sudden onset of peripheral vestibular signs
3. No detectable cause – no signs of outer- or middle-ear infection, ototoxicity, trauma, hypothyroidism, rickettsial disease, etc.
4. Signs resolve over several weeks

## How is vestibular disease treated?

Treatment is directed at the underlying cause, if one can be identified. In severe cases, supportive therapy such as intravenous fluids and hospitalization may be required until the pet can eat and walk on its own. Disoriented or ataxic (stumbling, unable to stand or walk), it may be given sedatives to help it relax.

*This client information sheet is based on material written by: Ernest Ward, DVM*

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