ANISOCORIA (UNEQUAL PUPIL SIZE)

BASICS

OVERVIEW

- The pupil is the circular or elliptical opening in the center of the iris of the eye; light passes through the pupil to reach the back part of the eye (known as the "retina"); the iris is the colored or pigmented part of the eye—it can be brown, blue, green, or a mixture of colors
- The pupil constricts or enlarges (dilates) based on the amount of light entering the eye; the pupil constricts with bright light
- "Anisocoria" is an inequality of pupil size in the animal (in other words, one pupil is larger than the other)

SIGNALMENT/DESCRIPTION of ANIMAL

Species

Dogs and cats

SIGNS/OBSERVED CHANGES in the ANIMAL

- Unequal pupils
- May have other signs, based on the underlying cause

CAUSES

Nervous System Disorders

 Disease affecting nerves to eye (the optic nerve, optic tract, and oculomotor nerve) or part of the brain (known as the "cerebellum")

Ocular (Eye) Disorders

- Inflammation of the front part of the eye, including the iris (known as "anterior uveitis")
- Disease of the eye, in which the pressure within the eye is increased (known as "glaucoma")
- Decrease in iris tissue (known as "iris atrophy") or poorly developed iris (known as "iris hypoplasia")
- Scar tissue between the iris and the lens of the eye (known as "posterior synechia"); the lens is the normally clear structure directly behind the iris that focuses light as it moves toward the back part of the eye (retina)
- Medications (such as atropine applied to only one eye, causing that pupil to enlarge or dilate)
- Cancer
- Spastic pupil syndrome—condition in which pupils alternatively will be unequal in size and then normal in size; may be associated with feline leukemia virus (FeLV) infection in cats

TREATMENT

HEALTH CARE

• Depends on underlying disease

MEDICATIONS

· Depends on underlying disease

FOLLOW-UP CARE

PATIENT MONITORING

• Depends on underlying disease

PREVENTIONS AND AVOIDANCE

• Depends on underlying disease

POSSIBLE COMPLICATIONS

• Depends on underlying disease

EXPECTED COURSE AND PROGNOSIS

· Depends on underlying disease

KEY POINTS

• The pupil is the circular or elliptical opening in the center of the iris of the eye

• "Anisocoria" is an inequality of pupil size in the animal (in other words, one pupil is larger than the other)

