

A MINI GUIDE TO



Liver Shunts



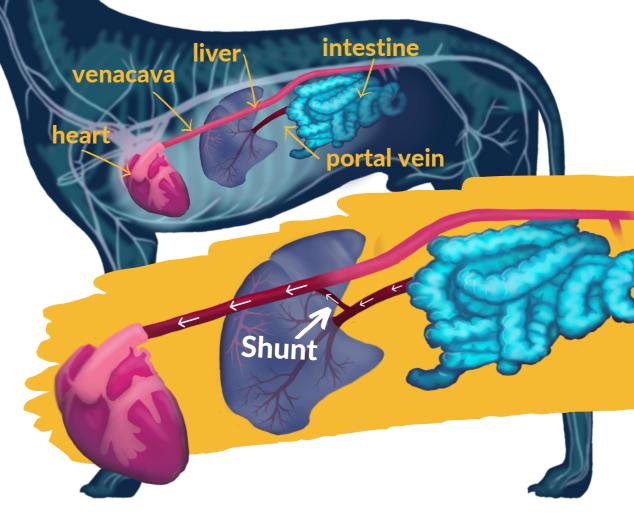




— Overview —

Portosystemic shunts (PSS) are abnormal connections between the portal vascular system and systemic circulation.

Blood from the abdominal organs, which should be drained by the portal vein into the liver, is instead shunted to the systemic circulation.



This means that toxins, proteins and nutrients from the intestines, that are usually processed by the liver, are shunted directly to the heart (and around the body)





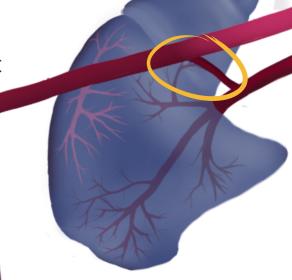


- Variations -

Congenital shunts are reported to occur in approximately 0.18% of the canine population.

66-75% of congenital shunts are single **extrahepatic shunts** (there is one shunt

located outside the liver)



These are more common in small breed dogs such as:



Miniature Schnauzers



Dandie Dinmont Terriers









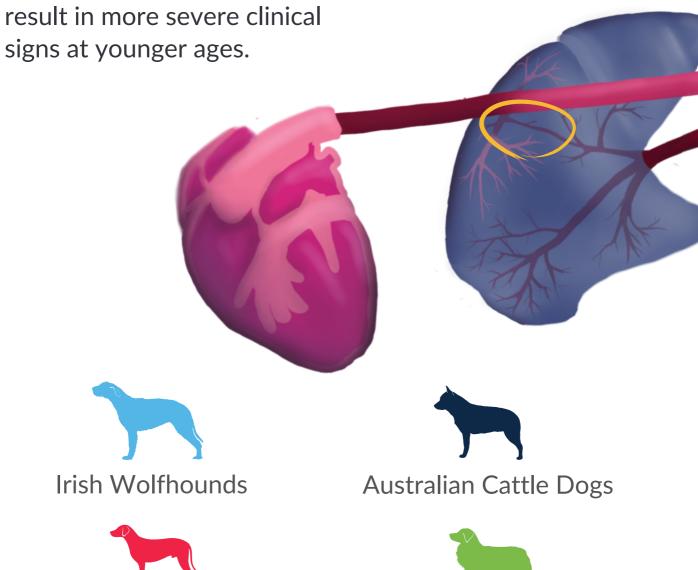






— Variations

Intrahepatic shunts (where the shunt is located inside the liver) are more common in large breed dogs. These can







Australian Shepherds

Under certain circumstances, some shunts form later on in life when problems occur with the liver. These are known as acquired shunts.







— Signs & — Symptoms

Congenital signs include:

Small body stature & stunted growth

Behavioural abnormalities

Long recovery from anaesthetic

Symptoms may include:

Ataxia

Seizures

Circling

Excessive drinking and/or urination

Vomiting

Diarrheoa

Some dogs may not show symptoms until later on in life and may begin to develop recurring cystitis due to urinary stone formation.

Certain signs may be more pronounced after eating.

Speak to your vet if you are concerned your dog may be showing these symptoms







__ Diagnostics __ & Treatment

A diagnostic workup may include:

- 🐧 Urinalysis
- **8** Blood tests
- Bile Acid Test
- Specialist ultrasound

Medical management may involve treatment with lactulose, antibiotics and a low protein diet

Surgical management technique will depend on the nature of the shunt and the vascular development of the patient's liver



