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**Vascular anomalies associated with hepatic shunting**

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### Abstract

Congenital vascular anomalies affecting the liver have been described in the scientific literature for decades. Understanding these malformations begins with knowledge of hepatic vascular embryology. Surgeons have applied numerous classification systems to describe both intrahepatic and extrahepatic shunts, which can confuse the reader and clinician. In our experience, focusing on one classification system for extrahepatic shunts and one for intrahepatic shunts is better. Today many patients with these shunts carry good long-term prognosis thanks to advances in imaging to better detect shunts earlier and map them out. Timely intervention by skilled radiologists and surgeons have also limited complications arising from dynamic shunts and can avoid a liver

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<https://pubs.rsna.org/doi/full/10.1148/rg.2019180146>

The shunts can result in hepatic encephalopathy, dependent on the size of the shunt and coexisting **liver parenchymal disease**. These patients are also prone to developing a number of hepatic vascular anomalies and **tumors**, including **focal nodular hyperplasia**, **adenomas**, **hepatoblastomas**, and **hepatocellular carcinomas** ( **Fig 19** ) ( 9 , 18 , 40 ).

**Author:** Brittany K. Albers, Geetika Khanna    **Publish Year:** 2019

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The most common circulatory **anomalies** of the **liver** in dogs are microvascular dysplasia (MVD) and portosystemic **vascular anomalies** (PSVAs, also referred to as portosystemic **shunts** or portocaval **shunts**). Cats also are affected with PSVAs but less commonly than dogs. MVD and PSVAs are related polygenic disorders affecting small-breed dogs.

## Intrahepatic arteriovenous shunt | Radiology Reference ...

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Intrahepatic arteriovenous shunts, also referred to as **intrahepatic arteriovenous malformations** (AVMs) or **hepatic arteriosystemic venous shunts**, represent a spectrum of abnormal communications between the hepatic arterial system and the hepatic veins.



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