How to handle abnormal liver enzyme activity in dogs
(ALT, AST, GGT and ALP)

No clinical signs

- Investigate for nonhepatic disease and drugs as cause

Clinical signs

- Consider trial therapy, liver support or antibiotics
- Recheck liver enzymes in 6-8 weeks

Etiology identified

- Enzyme activities abnormal
  - Measure bile acid concentration
  - Persistent abnormal liver enzyme activities or abnormal bile acid concentrations
  - Work up the liver (e.g. radiographs, ultrasound, fine-needle aspiration, cytology, biopsy, histology)

Etiology not identified

- Enzyme activities normal
  - Treat primary nonhepatic disease first
  - Recheck liver enzyme activities at a later date

Icterus, ascites, hepatic encephaly or hepatic mass

Source: David Twedt, DVM, DACVIM