

LIVER HEALTH

FOR DAIRY COW PERFORMANCE



RESPONSIBILITIES

METABOLISM
DETOXIFICATION
IMMUNE FUNCTION
NUTRIENT STORAGE

COMMON ISSUES THAT IMPAIR THE LIVER

- Grass tetany
- Fatty liver syndrome
- Ketosis
- Mineral imbalances
- Infectious diseases ie. leptospirosis, salmonella

COMMON MISTAKES THAT COMPROMISE LIVER HEALTH

- Inadequate mineral supplementation
- Overreliance on pasture
- Overlooked symptoms
- Misdiagnoses

SYMPTOMS OF IMPAIRED LIVER HEALTH

Reduced appetite and feed intake |
Weight loss and poor body function |
Jaundice | Decreased production |
Behavioural changes

Fatty liver syndrome | Hepatitis |
Liver abscesses

MEDICAL CONDITIONS OF THE LIVER

SYNERGISTIC ACTIONS BETWEEN MINERALS

COPPER + ZINC + SELENIUM

- Support antioxidant defense mechanisms
- Oxidative stress protection
- Promote overall liver health
- Copper-dependent enzymes require zinc for proper function

CALCIUM + PHOSPHORUS

- Cellular integrity
- Energy metabolism
- Balance for efficient liver function and detoxification

KEY MINERALS FOR LIVER HEALTH

CALCIUM

- Activation of enzymes for liver detoxification
- Bile acid synthesis for fat digestion and absorption

PHOSPHORUS

- Cellular energy metabolism in liver cells
- Synthesis of nucleic acids and membrane structure

MAGNESIUM

- Enzymatic reactions in the liver
- Antioxidant defense mechanisms
- Oxidative damage protection

COPPER

- Synthesis of ceruloplasmin
- Antioxidant defense
- Iron metabolism
- Bile acid production for fat digestion and absorption

ZINC

- Cofactor for liver enzymes in detoxification
- Protein synthesis
- Immune function

SELENIUM

- Antioxidant
- Oxidative damage protection
- Supports selenoprotein activity for detoxification
- Immune function

AGVANCE SOLUTIONS

Liverade
Loose Licks
MecoVit
Ascocool

