

CNS Toxicities

Depression

Kathy Parton, IVABS

# CNS Toxicities

## DEPRESSION

### Differential diagnoses:

- Alpha chloralose (bird pesticide)
- Barbiturates in euthanased animals
- Ethylene Glycol



# CNS Toxicities

## DEPRESSION

### Differential diagnoses:

- Ivermectin
- Marijuana

# CNS Toxicities

## DEPRESSION

### PROBLEMS:

- Ataxia and incoordination
- Depression
- Hypothermia
- Stupor
- Coma



# CNS Toxicities

DEPRESSION

ALPHA CHLORALOSE

- "Anaesthetised"
- Hypothermic
- Depressed
- Clonic convulsions

# CNS Toxicities

## DEPRESSION

### ALPHA CHLORALOSE TREATMENT

- Symptomatic and supportive care
- Warm environment
- Anticonvulsants
- Oxygen
- Osmotic diuresis (mannitol)

# CNS Toxicities

DEPRESSION

MARIJUANA

- “Stoned”, glazed look
- Pinpoint pupils
- Depression
- $\pm$  Excitation





# CNS Toxicities DEPRESSION

## MARIJUANA TREATMENT

- Symptomatic and supportive care
- Diazepam



# CNS Toxicities

DEPRESSION

IVERMECTIN

- COLLIE OR COLLIE CROSS
- Ataxia
- Depression
- Blindness (reversible)

# CNS Toxicities

## DEPRESSION

### IVERMECTIN TREATMENT

- Symptomatic and supportive care
- Activated charcoal (repeat)

# CNS Toxicities

DEPRESSION

BARBITURATES

- Respiratory depression
- Ataxia, disorientation
- CNS Depression
- Hypothermia



# CNS Toxicities

## DEPRESSION

### BARBITURATES TREATMENT

- Symptomatic and supportive care
- Alkaline diuresis

# CNS Toxicities

## DEPRESSION

## SUMMARY

- "Anaesthetised-like state" or stuporous
- Hypothermia
- Osmotic vs Alkaline diuresis