Contrac Blox

Mould and Moisture Resistant

Kills Rats and Mice

**All-Weather** 









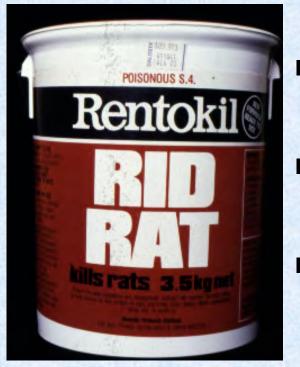
### Problems

- Dyspnoea, lethargy, weakness
- Coughing, pallor, anorexia
- Vomiting
- Mucous membranes
  - Pale

### SOURCES

Anticoagulant rodenticides

First Generation Dicoumarins



- warfarin
- coumatetralyl & others
- T<sup>1</sup>/<sub>2</sub> short 14-15 hours

## SOURCES

Anticoagulant rodenticides

- Indanediones
  - Pindone (short acting)
  - Diphacinone (longer acting)
     $T\frac{1}{2} = 4-5$  days in dogs



# ANTICOAGULANT TOXICITIES SOURCES

Long acting Anticoagulant rodenticides brodifacoum Talon  $T_{\frac{1}{2}}^{1} = 6$  days in dogs





### Other rodenticides - flocoumafen Storm

### All-Weather Contrac Blox

Mould and Moisture Resistant

#### Kills Rats and Mice

ACTIVE INGREDIENT: Contains 0.05g/kg bromadiolone in the form of a bait.



Racumin<sup>®</sup> Paste

For the Control of Rats and Mice

2 25kg Ne

Net Contents: 8 x 28 gm.

FOR USE IN BAIT STATIONS ONLY Active ingredient : 0.02g/kg bredifacoum in the form of carrel patho

READ LABEL ON REVERSE

Info. Line 06 358 9052

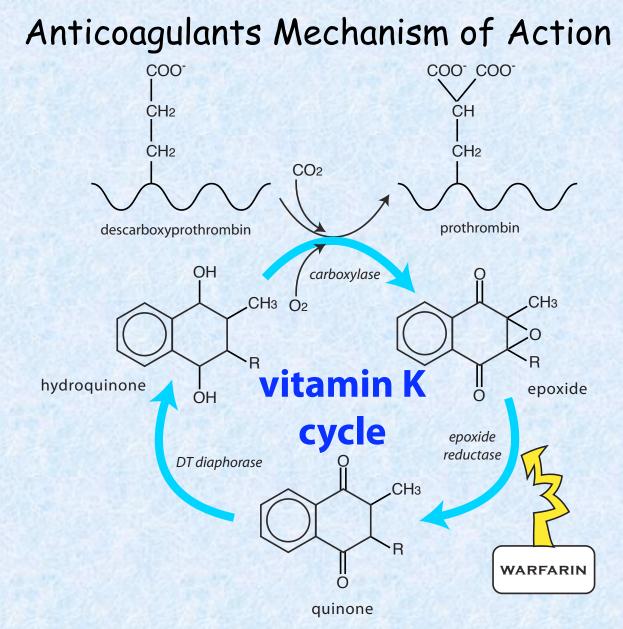
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2.5kg

ANMAL CONTROL PRODUCTS 170

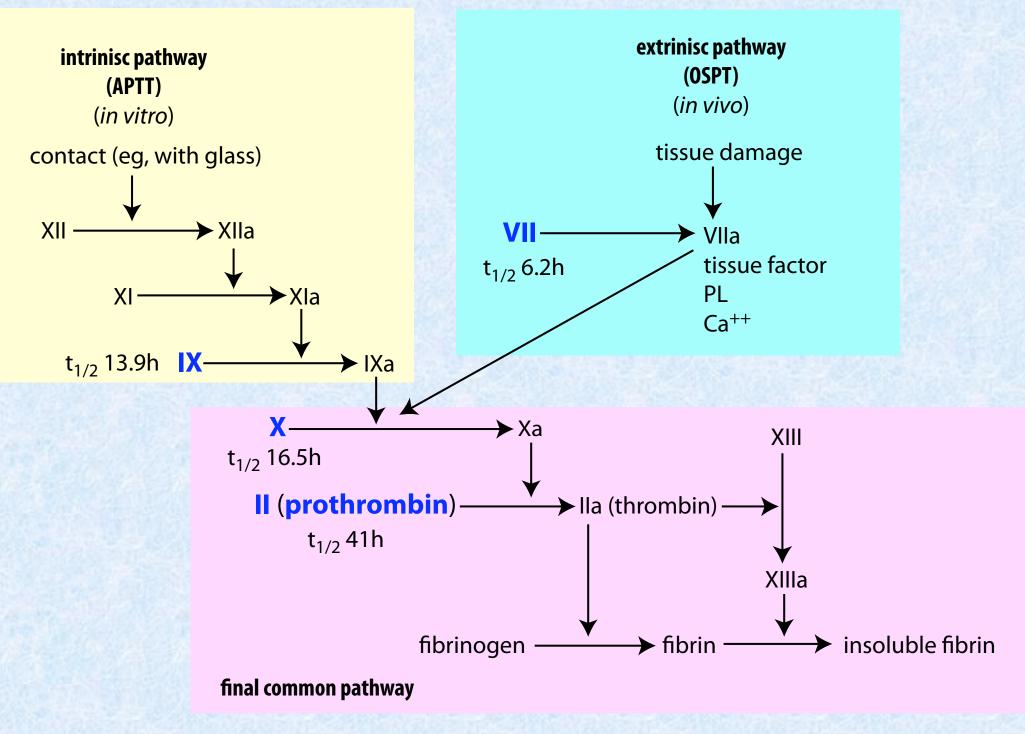
# ANTICOAGULANT TOXICITIES Mechanism of Action:

- Competitive inhibition of Vitamin K epoxide reductase
- Decrease of clotting factors
  - II, VII, IX & X
  - generalised bleeding disorder



The halting or severe reduction in vitamin K recycling means that a continuous source of the vitamin is essential to avoid a coagulopathy.

Administration of vitamin K produces a positive biochemical response within 24 hours.



Blood coagulation pathways affected by coumarin rodenticides

### CLINICAL SIGNS

- Dyspnoea
- Lethargy, weakness
- Coughing
- Pale mucous membranes
- Anorexia

## Clinical Signs

- Vomiting ± blood
- Melaena black tarry-like stools
- Haematuria
- Lameness

# ANTICOAGULANT TOXICITIES Clinical Pathology:

- One stage prothrombin test (OSPT)
  - Citrate tubes
    - submit blood of normal animal
- Activated partial thromboplastic time (APTT)

# ANTICOAGULANTS TREATMENT

- Depends on time of poisoning
- Depends on clinical signs of poisoning
- Vitamin K<sub>1</sub>
- And symptomatic and supportive care as needed

ANTICOAGULANTS TREATMENT Serious Clinical Signs

- Symptomatic and supportive care
  fluids
- Vitamin K<sub>1</sub> (IV in fluids or SC initially)
  - up to 3 4+ weeks for
    long acting
    (oral with fatty foods)



E ± Clotting factors or blood transfusions

Anticoagulants SUMMARY

- Early decontamination
- Prolonged treatment (2<sup>nd</sup> G)
  - Monitor OSPT
- Anticoagulant rodenticide
  - Vitamin K<sub>1</sub>
  - Treatment based on severity

### ANTICOAGULANTS KEY POINTS

Determine which product and how much was eaten Decontaminate the animal if no clinical signs are present Use an emetic if less than 4 hours from ingestion Clinical signs may not appear for several days. Animal may die suddenly from internal haemorrhage nd 2 generation poisoning like Brodifacoum will cause clotting problems for 30+ days

Vitamin K1 is the treatment of choice (oral with a fatty meal)