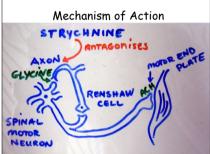
CNS Excitation Toxicities STRYCHNINE (aka nux vomica)

Infrequent poisonings (in NZ) as no longer sold here as a rodenticide, still available overseas Nux vomica is used as a stimulant in Ketovet®

Dog - LD₅₀ 0.5 mg/kg

- Muscle rigidity
- Sawhorse stance
- Opisthotonos
- Violent seizures (stimulated)



CNS Excitation Toxicities

STRYCHNINE TREATMENT

Would you, should you, give an emetic? Why or Why not?

- Anticonvulsants
- Symptomatic and supportive care
- Dark, quiet environment
- Acidify the urine <u>EXCEPT</u> if acidotic

CNS Excitation Toxicities



CHOCOLATE

- methylxanthine
- theobromine, caffeine
- White choosins 6.08 rgs w 1145 Mg day 2703 Go. Mg day 2703 Mg day
- chronotropic and inotropic cardiac effects
- causes diuresis (like coffee)
- dark chocolate more toxic than milk chocolate chocolate calculator



CNS Excitation Toxicities

CHOCOLATE

- Hyperactive, restless, vomiting
- Hyperthermia



- Hyperreflexive
- Cardiac arrhythmias (tachycardia)
- Ataxia, seizures and coma

CNS Excitation Toxicities

CHOCOLATE TREATMENT

- Decontaminate Repeat Activated Charcoal
- Anticonvulsants
- Symptomatic and supportive care
- Premature Ventricular Contractions lignocaine
- Tachycardia beta blockers if persist

CNS Excitation Toxicities RYEGRASS STAGGERS

SOURCE

- Mycotoxin Lolitrem B (Neotyphodium Iolii)
- Ryegrass pastures (Lolium perenne)





CNS Excitation Toxicities

RYEGRASS STAGGERS

Clinical Signs

- Trembling, twitching of muscles
- Head nodding, jerky movements
- Incoordination, ataxia
- Severe opisthotonus

CNS Excitation Toxicities

RYEGRASS STAGGERS

Treatment

- Symptomatic
- Provide feed, water and shelter if severe
- Most deaths are from misadventure so avoid "traps" in paddocks, e.g. dams

Is it poisoned?

- History: It is spring time. A Linton Camp dog owner is away. Neighbor looking after dog discovers it is missing. A search of the neighborhood finds the dog in a distressed state. Rogan is a 5 yo male, mixed breed dog, weighing 33kg.
 On physical examination the dog is alert, salivating, and has a TPR of 39.7, 160 bpm, 60 bpm. He is incoordinated and has whole body muscular tremors.
- Neighbor has no idea what the dog has been doing for the past several hours.
- Is it poisoned?
- · What are you going to do?

Is it poisoned?

- Rogan 5 yo male mixed breed dog, 33kg.
- dog is alert, salivating, TPR of 39.7, 160 bpm, 60 bpm, incoordinated, whole body muscular tremors.
- While you begin treatment the dog starts convulsing.
- What are you going to do now?
- · What would be highest on your list of differentials?