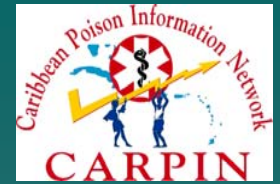
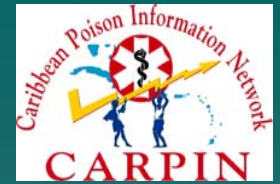


CARIBBEAN POISON INFORMATION NETWORK



THIRD ANNUAL SCIENTIFIC
CONFERENCE UHWI
KINGSTON, JAMAICA
MAY 31-JUNE 1, 2008



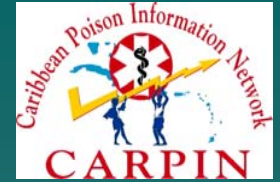
“All substances are poisonous; there is none that is not poison. The right dose differentiates a poison from a remedy”

*.....Phillipus Aureolus Theophrastus Bombastus
Von Hohenheim (Paracelsus) 1493-1541*



Dose – Effect

homeopathy



Dose – Effect

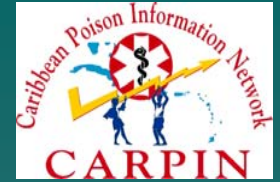
Aspirin

< 81 mg < 325 mg

Antiplatelet

Antithrombotic

> 325 mg Analgesic,



Dose – Effect

Aspirin > 325 mg

analgesic

uricosuric

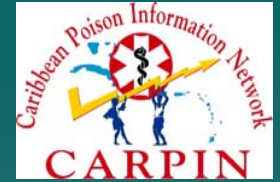
Dose – Effect



Aspirin

large doses - acidotic,
comatose

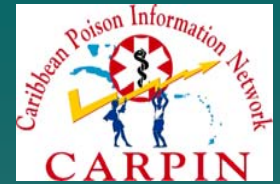
All doses
- ulcerogenic



Cumulative Effect

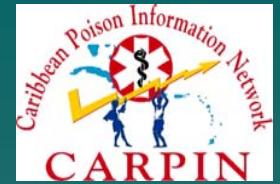
Slow Poisons

eg Arsenic



Immediate Effect

- Overdosing
 - panadol
 - Valium

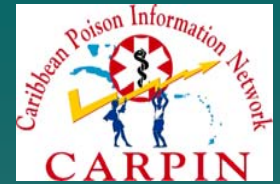


Original Drug Interaction

- unpredictable
- predictable

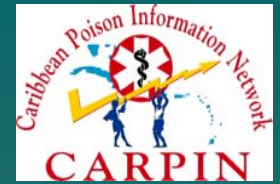
eg. Aspirin – Coumarin

Alcohol – Morphine



Timing

- Time of meals
- Time of day
 - *Statins (toxic to liver, muscle)*
- Times per day
 - dosage
- Time of Expiry
 - < 3 months but Care!

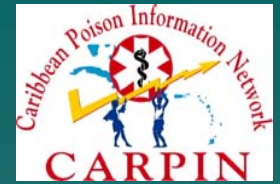


“When Medicines are Poisons and Vice Versa”

Carpin Conference

May 31, 2008

*Professor the Hon. Errol Y. St. A. Morrison, OJ
MD, PhD, FRCP (Glasg), FACP, FRSM (UK), FRSH*



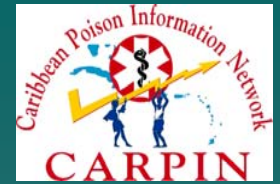
Absorption

Storage

Translocation

Excretion

**Biotransformation
(Metabolism)**



Toxic Damage

- Membranes – liganding, integrity
eg: *Capsaicin*

- Cell Division – Antimetabolites
eg: *Methotrexate*

- Metabolism

 - eg: Respiration – *cyanogens from cassava, almonds*

 - Protein synthesis – *ricin of castor bean*

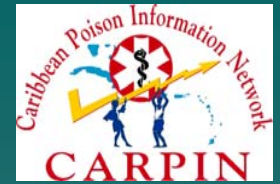


Hypersensitivity

(Allergy)

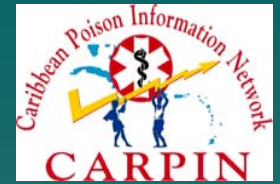
- *Aspirin*
- *Penicillin*
- *Tetracyclines*

Delayed / Immediate /
Anaphylaxis



Idiosyncrasy

Totally unexpected and out of character
in response to the administered
medication.



“ For centuries, mankind has known that there are substances called poisons that **cause injury** to living things.

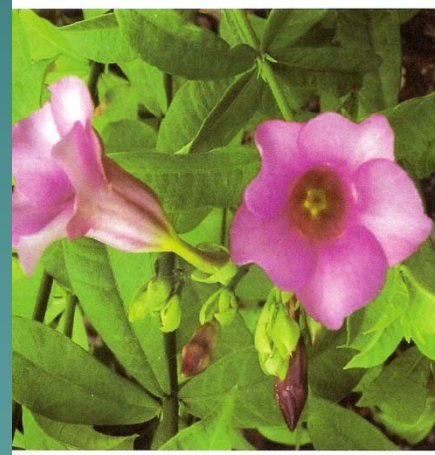
Over the years, the focus of concern has been on those agents or toxicants that cause harm to mankind. However, plants and other animals are also vulnerable.

In fact, it is known that toxins can interact within the environment with the potential of destroying ecosystems and populations.....”

.....Anonymous.

Watch the Goats!

They don't eat:
Allamanda
digitoxica



Watch the Goats!

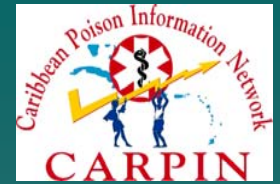
They don't eat:
Oleander
- digitoxic



Watch the Goats!

They don't eat:
Periwinkle
mitotoxic



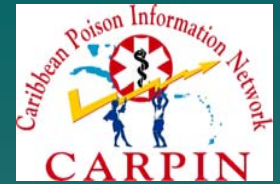


alcohol...

Dizzy and delightful

Drunk and disorderly

Danger of death



alcohol...

Food

Medicine

Poison