Vector Borne Diseases
Arthropods, Birds and Mammals of Public Health Significance

Satellite Conference and Live Webcast
Wednesday, July 26, 2017
2:00 – 3:30 p.m. Central Time

Produced by the Alabama Department of Public Health Distance Learning and Telehealth Division

Faculty
Phyllis Mardis
Public Health Environmental Supervisor
Alabama Department of Public Health

• What is a Vector?
• What is the difference between a vector and a vermin?

Vectors of Public Health Concern
• Bats
• Bird
• Cockroaches
• Flies
• Kissing bugs
• Mosquitoes
• Rodents
• Ticks
• Bed bugs

Bats and Birds
• Rabies
• Salmonellosis
• Histoplasmosis
Bat and Bird Roosts Eradication

Cockroaches
- Diarrhea
- Dysentery
- Salmonellosis
- Cholera

Cockroach Management

Clean up

Cockroaches
- Typhoid
- Paratyphoid
- Cholera
- Dysentery
- Giardiasis
- Conjunctivitis
- Leishmaniasis

Fly Control
- Basic Control
- Screening/caulking
- Fly swatters
- Fly paper
- Vacuuming
- Insect bombs
- Remove breeding materials

Kissing Bug
Kissing Bug Bite Prevention

Mosquitoes

Avoiding Mosquito Bites

3-Ts
Tip
Toss
Treat

&

3-Ds
Drain
Dress
Defend

Rodents – Rats and Mice

• Rats - most dangerous mammal
• Commensal
• Disease
  − Bites
  − Fleas
  − Mites
  − Urine/Feces

Rodent-borne Diseases

• Rat-bite fever
• Leptospirosis
• Salmonellosis
• Trichinosis
• Plague
• Hemorrhagic fever
• Hantavirus
• & others

Rodent-borne Disease Management
**Tick Borne Diseases**
- Rocky Mountain Spotted Fever
- Typhus
- Rickettsial pox
- Relapsing Fever
- Tularemia
  - and others
- STARI
  - Lyme

**Tick Bite Prevention**
- Avoid habitat
- Reduce population
- PPE
  - Long sleeves
  - Long pants
  - Repellent
- Inspect & remove

**Bed bugs**

**Bed Bug Control**

**Ekbow’s Syndrome**

**Pest Management**
*Integrated Pest Management*
- Prevention - Sanitation and habitat modification
- Identification - locating and monitoring
- Treatment - Pesticides
- Exclusion - build them out
Contact Information
Phyllis Mardis
Public Health
Environmental Supervisor
Alabama Department of Public Health
(334) 206-5373
Phyllis.Mardis@adph.state.al.us