The impact of FARAD expertise on veterinary education and practice

OUTREACH

Teaching

Foundational knowledge
- Pharmacokinetics
  - Effect of route of administration and formulation on absorption and bioavailability
  - The effect of age, disease and altered physiological state on drug depletion
  - Inter-species differences
- Pharmacodynamics
  - Drug toxicity/adverse effects

Drug Regulation
- Drug approval process
  - MRL/tolerances
  - Withdrawal times
- Veterinarian-Client-Patient Relationship
- Extra-label use
- Compounding
- Drug supply and quality assurance (counterfeits)

Good veterinary practice
- Animal identification
- Record keeping
- Client communication
- Sourcing and storing drugs appropriately
- Making sound therapeutic decisions
- Prescription writing

Research

Research
- The effect of intra- and inter-individual pharmacokinetic variability on the risk for violative residues
- Science-based risk-assessment and management of extralabel drug use and food animal exposure to environmental toxins and contaminants
- incidence of violative residues
- Patterns in extralabel drug use

OUTCOME 1

Protection of **Public Health** through the prevention of exposure to harmful drug residues through food of animal origin

OUTCOME 2

Economic development through the breakdown of trade barriers