BVD in Commercial Cattle

Dan Goehl, DVM

Canton Veterinary Clinic

Canton Veterinary Clinic

- NE Missouri
  - Cow/Calf
    - Commercial
    - Seedstock
  - Stocker
    - Custom feeders
    - Self owned

Reasons I Test

- ✓ Diagnostics
- ✓ Monitor Status of Herd
- ✓ Marketing

Diagnostics

- Herd Basis
  - Increased morbidity
  - Decreased conception
  - Commingled Stockers
- Individual Animal Basis
  - Necropsy
  - Morbid animals

Monitor Status of Herd

- Herd with current biosecurity plan
- Herd with recent introductions
- Herd with poor biosecurity
  - At times necessary evil

Marketing

- Replacement animals
- MO Stocker Feeder Quality Assurance Program

Herd A

- Diagnostics
  - Baby Calf Scours
    - Routinely test morbid neonatal calves
      - 2 Positive

Biosecurity Plan

- Ear notch every animal necessary
- Isolate new arrivals
- Isolate pregnant additions
- Intense vaccination

Year 1

- Test every calf
- Test every cow without a calf to test
- Test every bull

Which Test Protocol

- Ear Notch
  - IHC
  - Antigen Capture Elisa
  - PCR
    - Pooled
- Blood
  - Pooled

High Probability of Positive

- Individual animal test

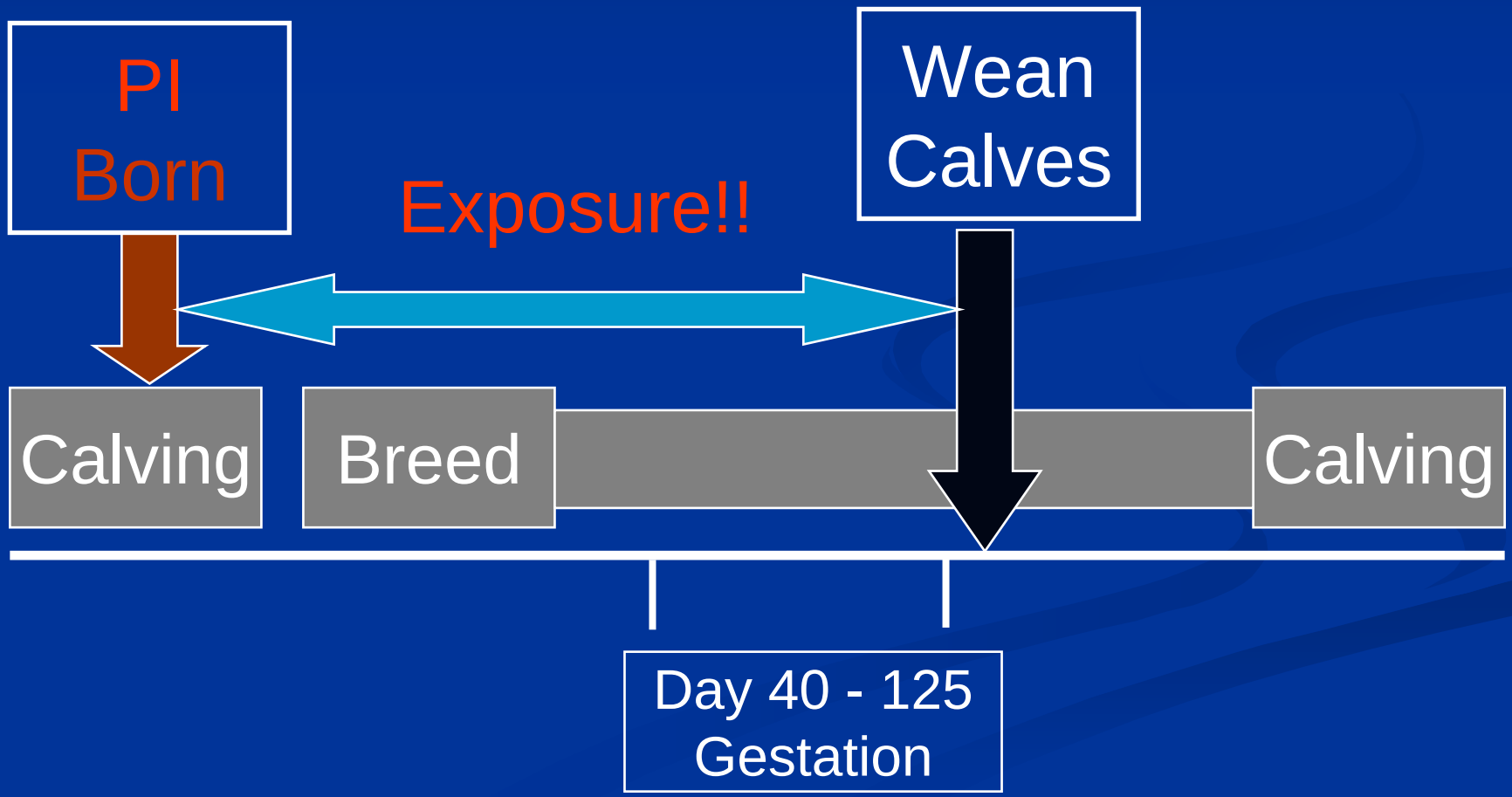
Low Probability Positive

- Pooled test sample

Biosecurity Plan

- Ear notch current & incoming animals
  - Before bringing to home herd
  - Emphasize before bull turnout

Vertical Transmission



Biosecurity Plan

- Ear notch every animal
- Isolate new arrivals
- Isolate pregnant additions
- Intense vaccination

Biosecurity Plan

- Isolation on arrival
  - Isolate away from other animals for 30 days

Biosecurity Plan

- Ear notch every animal
- Isolate new arrivals
- Isolate pregnant additions
- Intense vaccination

Biosecurity Plan

- **Pregnant additions**
  - **Don’t forget the calf!**

Biosecurity Plan

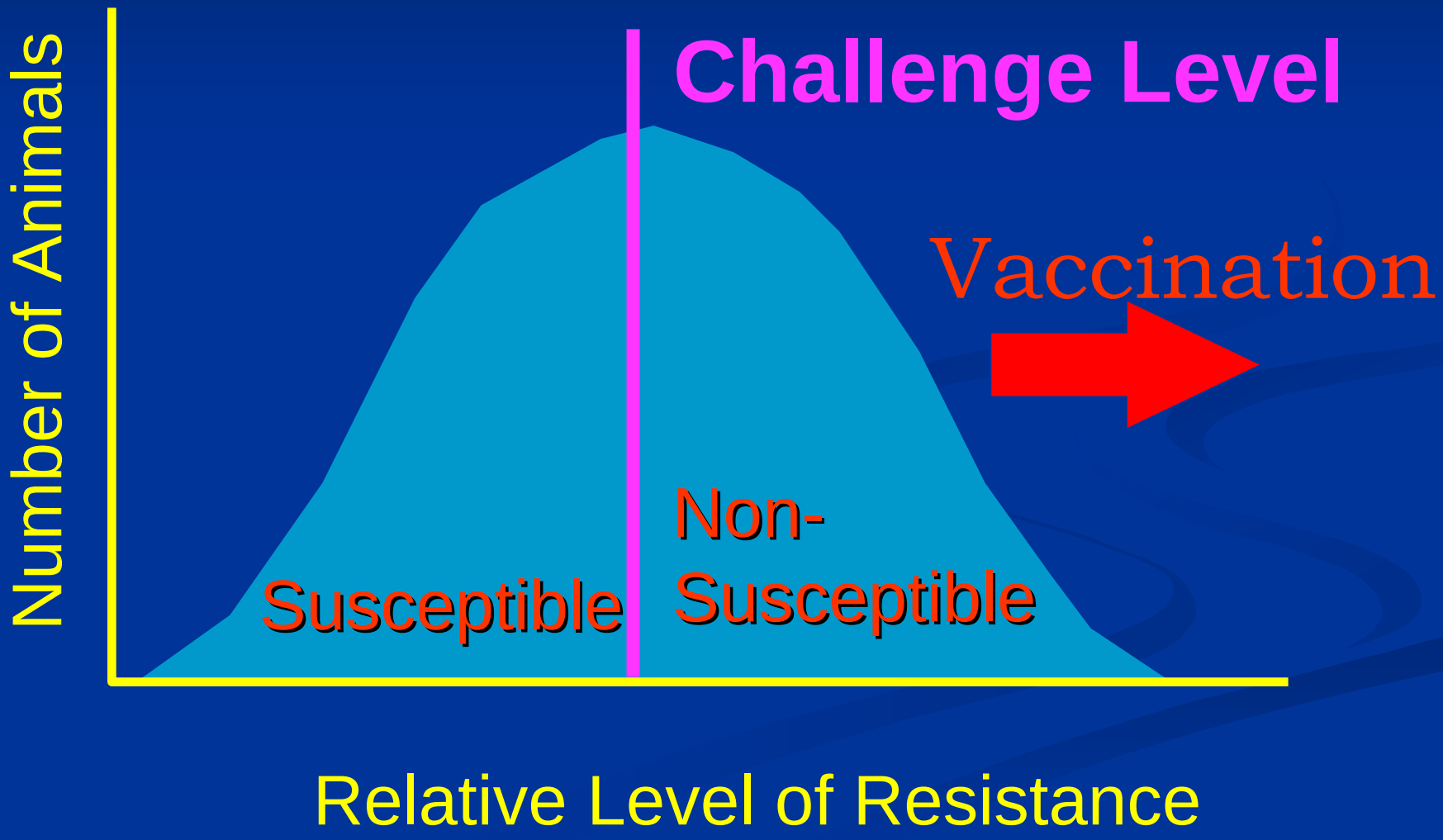
- Ear notch every animal
- Isolate new arrivals
- Isolate pregnant additions
- Intense vaccination

Biosecurity Plan

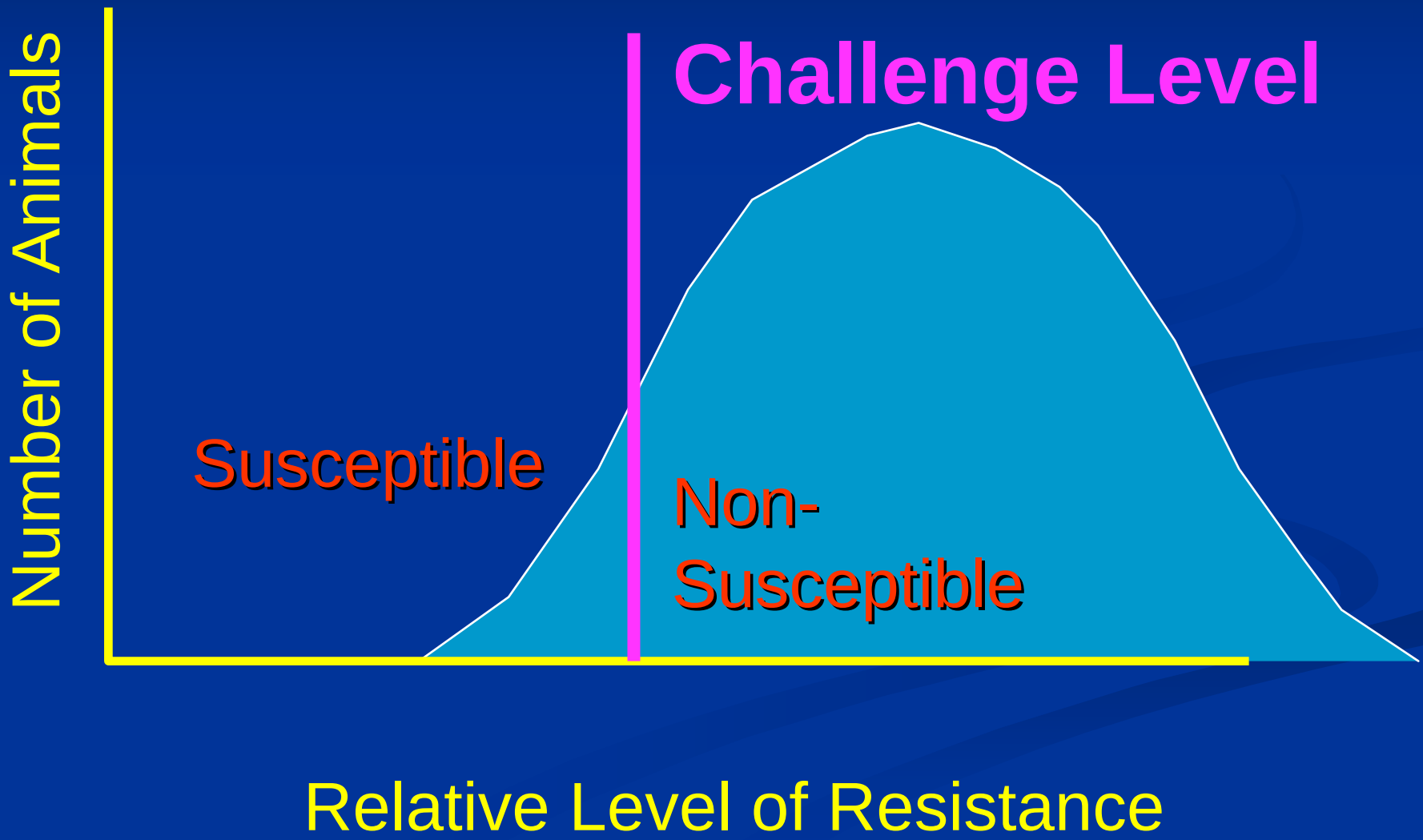
- **Vaccination**

- **Intensive vaccination program**
  - **Modified Live Pre Breeding**

Collective Herd Immunity



Collective Herd Immunity



Year 2

- Pooled PCR
- Test every new animal
- Assess biosecurity

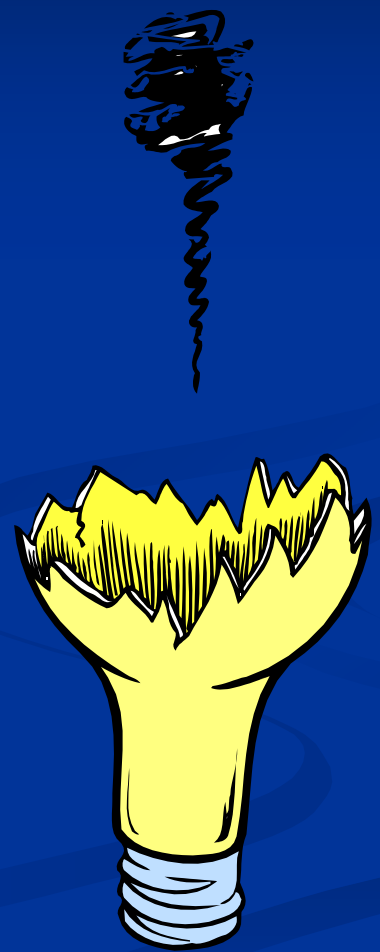
Year 3

- Test every new animal
- Monitor herd parameters
  - Pregnancy rates
  - Abortion rates
  - Morbidity
  - Mortality

Setbacks

- compliance

- Uncontrolled circumstances



Thank you