Why Remote Delivery Systems?

• ADMINISTRATION OF ANIMAL HEALTH INJECTABLE WITHOUT RESTRAINT
• POPULAR IN REMOTE GRAZING SITUATIONS
• MORE CONVENIENT
• QUICKER DELIVERY
• EASIER TO MEDICATE BAD TEMPERED ANIMALS
• SAFER
Types of Remote Delivery Systems

POPULAR TOOLS AVAILABLE

• POLE SYRINGES

• DART DELIVERY
  - PNEUMATIC
  - CO2
  - .22 CHARGED
Remote Delivery Systems

BQA CONCERNS

• CONSIDER THE BEST WELFARE FOR THE ANIMAL

• PROPER INJECTION SITE

• CORRECT ROUTE OF ADMINISTRATION

• CORRECT DOSAGE

• BROKEN NEEDLES OR COMPLETE DARTS IN MUSCLE/CARCASS
Best Welfare for the Animal

CONSIDERATIONS:

• WHAT IS THE DIAGNOSIS?

• WHAT IS THE BEST FOR THE ANIMAL?

• WHAT ARE YOUR RESTRAINT OPTIONS?
  - LOCATION
  - PROPER FACILITIES
  - PROPER TOOLS

• WHAT IS THE SAFEST FOR THE ANIMAL AND CAREGIVER?
Proper Injection Site

CONSIDERATIONS:

• INJECTION SITE TRIANGLE IN THE NECK

• 10 CC PER INJECTION SITE

• MULTIPLE INJECTIONS SHOULD BE 4” APART

• CONDITIONS EFFECTING FLIGHT PATTERN
Injection Site

CONSIDERATIONS:

- WEATHER CONDITIONS
  - WIND
  - MOISTURE

- DISTANCE
  - 10-30 YARDS

- CORRECT CHARGE/FORCE

- WEIGHT OF PRODUCT DELIVERED
Route of Administration

CONSIDERATIONS:

- INTERMUSCULAR
- SUBCUTANEOUS

<table>
<thead>
<tr>
<th>Injectable Viscosity</th>
<th>Route of Administration</th>
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<tbody>
<tr>
<td></td>
<td>SQ (1/2 - 3/4 inch needle)</td>
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<td></td>
<td>Cattle Weight lbs.</td>
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<td>Thin Example: Saline</td>
<td>18 gauge</td>
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<tr>
<td>Thick Example: Tetracycline</td>
<td>18-16 gauge</td>
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**SELECT THE NEEDLE TO FIT THE CATTLE SIZE** (THE SMALLEST PRACTICAL SIZE WITHOUT BENDING)
Dosage

CONSIDERATIONS:

• CORRECT WEIGHT ESTIMATION

• SIZE OF DART
  - 2-10CC

• NEEDLE SIZE
  - 14 GUAGE
  - 3/8” - 2”
Broken Needles/Embedded Darts

LOCATION: ROUND
Broken Needles/Embedded Darts

LOCATION: CHUCK
National BQA Advisory

BQA.ORG
• RESOURCES
• MANUALS
Questions

ROB EIRICH, EXTENSION EDUCATOR
NEBRASKA DIRECTOR OF BQA

REIRICH2@UNL.EDU

308-632-1230