Keeping Grazing Ruminants Healthy

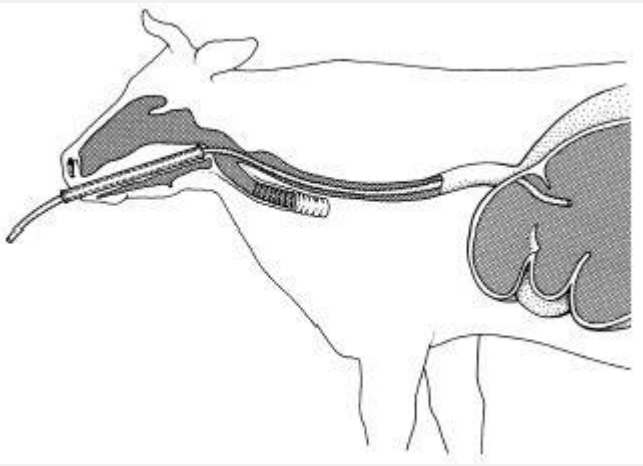
Plant related problems

Bloat

Nitrate poisoning

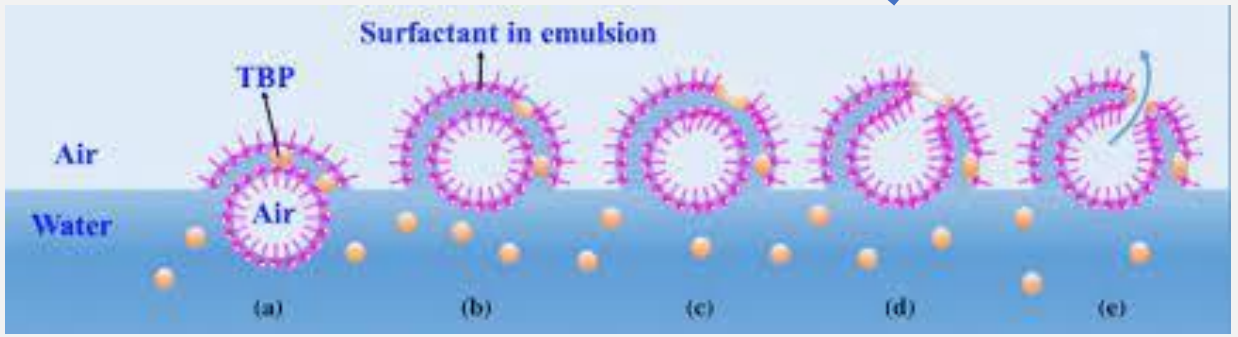
Prussic acid/cyanide

Grass tetany

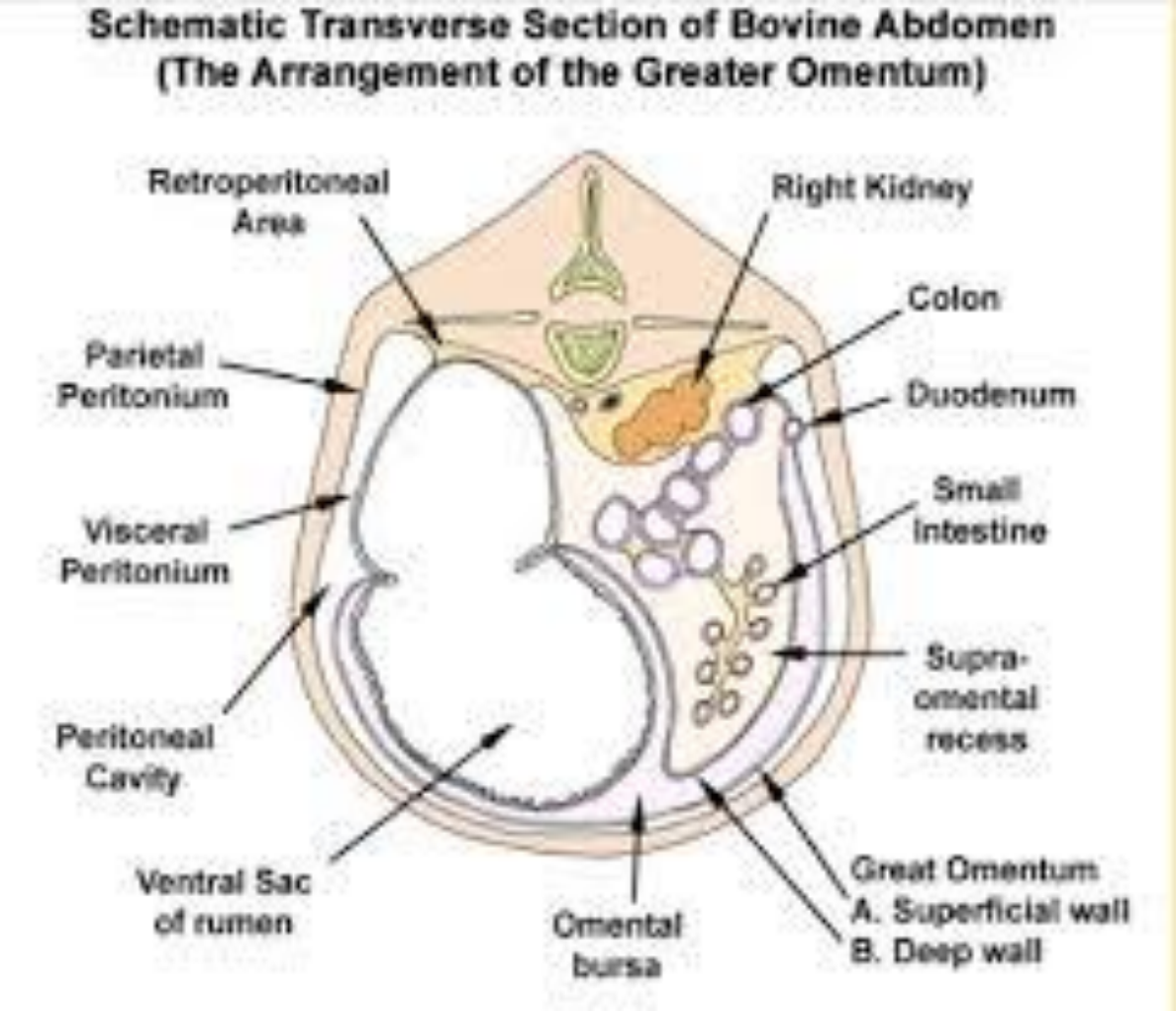



Therabloat
Drench Concentrate

Oil
Butter


Surfactant in emulsion
TBP
Air
Air
Water
(a)
(b)
(c)
(d)
(e)

No Needles or Knives!!!



Nitrate Toxicity and Prussic Acid

Nitrate Toxicity

- <u>Early</u> spring growth of winter annual forages and pure stands of ryegrass.
- Drought-stressed summer annuals following onset of rain.

Prussic Acid / Cyanide

Sorghum
Sorghum x sudan

>

Sudan grass

>

Millet
Teff
Corn for grazing

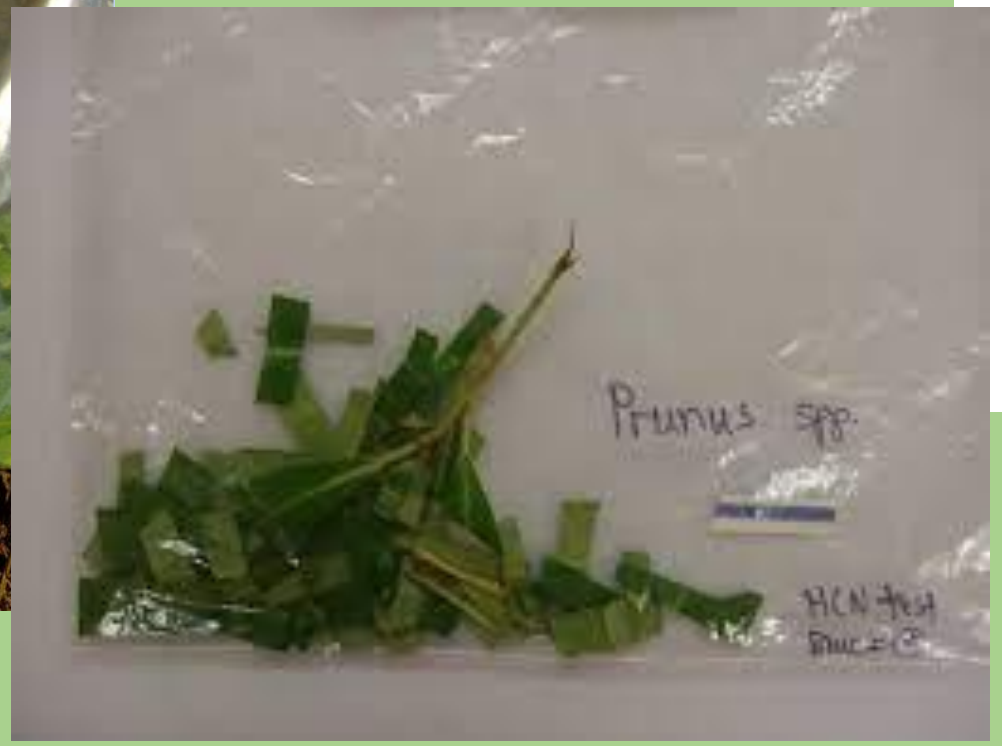
Hard rules:

- **Don't graze under 18" tall**
- **Don't graze after frost**
- **No continuous grazing**

Cherry trees

Prussic acid testing

- Quick field test with cyanide test strips.
- If in doubt, harvest mechanically.



Grass tetany

Mineral nutrition

- 1st choice is force fed minerals.
- 2nd choice is free choice using salt to drive intake.

- Free choice = **one** source of mineral that can be consumed as needed and driven by NaCl intake.

- Minerals are needed by the rumen microbes, too.

- Mineral deficiencies will affect rumen fermentation.

Animal Genetics


TANGO

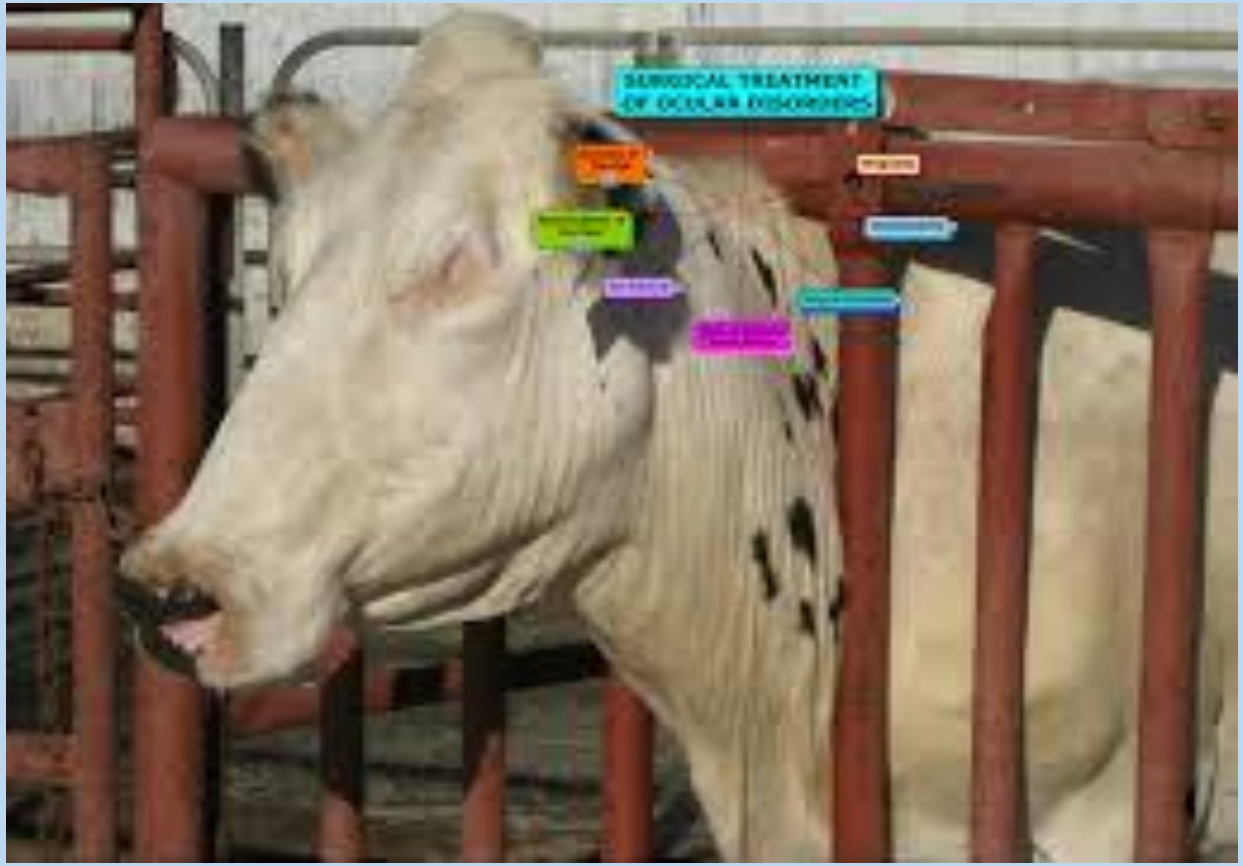
Dealing with local veterinarians:

- You need a diagnosis: physical exams, postmortem exams, and lab submissions.

PINK EYE

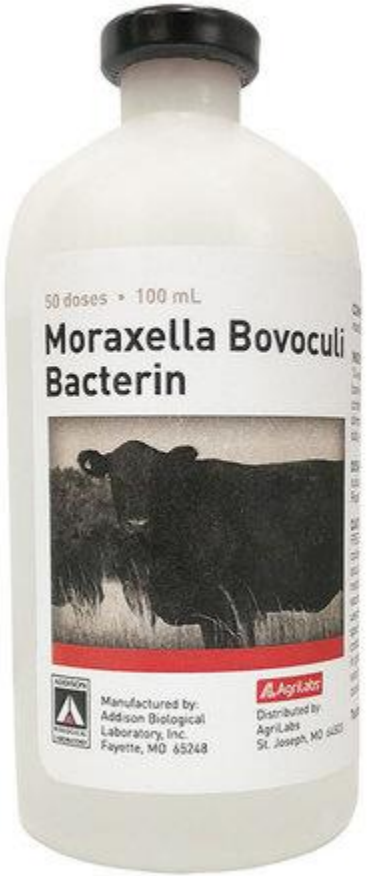

Dr. Paul's
Super
Wound Spra
Dr. Paul's


Vetericyn
Pink Eye Spray


SURGICAL TREATMENT
OF OCULAR DISORDERS


Giant Fly Glue Trap
Giant Fly Glue Trap


Moraxella Bovis
Bacterin
Ocu-guard® MB-1
Single dose
50 Doses/100 mL

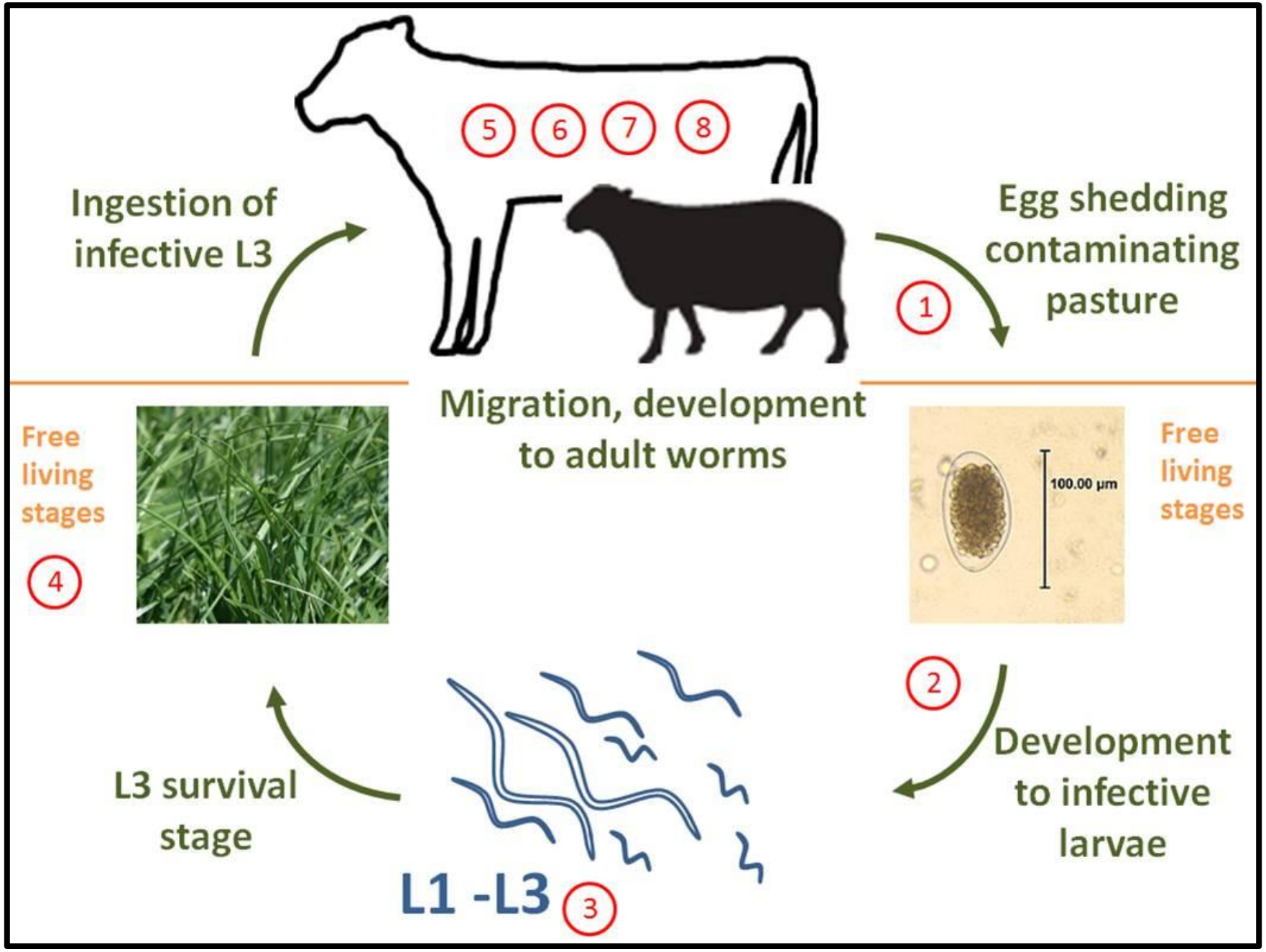

50 doses • 100 mL
Moraxella Bovoculi
Bacterin
Manufactured by:
Addison Biological
Laboratory, Inc.
Fayette, MO 65248
Distributed by
AgriLabs

Internal parasites - gastrointestinal nematodes/ “worms”

- Parasites are part of normal microbiome!
- They make us better graziers!
- There is no option other than good grazing. *Pasture management is parasite management.*

90% of larvae live in bottom 4” of pasture.

Larvae population declines 90% after 40-45 days



3 – 10 days for eggs to hatch and become infective larvae

Coccidiosis


THE END