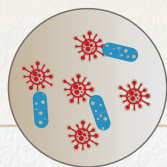


# WHAT *Beef Producers* Need to Know



## **Responsible antimicrobial use to avoid resistance**

*Many people are talking about antimicrobial resistance these days, including consumers and governments. What do cattle producers need to know? Responsible use can not only save production costs, it reduces the chance of important antimicrobial drugs becoming less effective in animal and human medicine.*

### **TIPS: Using antimicrobials responsibly**

- Have an accurate diagnosis before using antimicrobials
- Follow all veterinary and/or label instructions (dosage, treatment time, withdrawal time, etc.)
- Monitor cattle health on an ongoing basis to provide prompt and appropriate treatment or care
- Ask your veterinarian whether a tetracycline-based antibiotic should be used first (e.g. Oxytetracycline, Liquamycin, Biomycin) **before moving to an antibiotic of High Importance** (e.g. Micotil, Draxxin, Zuprevo, Zactran) or **Very High Importance** (e.g. Baytril, A180, Excenel, Excede) in human medicine

*Watch this video to see why responsible use is important at [beefresearch.ca/AMR](http://beefresearch.ca/AMR)*



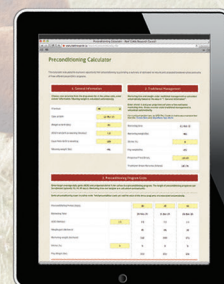
### **TIPS: Preventing cattle illness to reduce the need for antimicrobial use**

- Implement a practical vaccination program for your herd
- Use biosecurity practices to reduce spread of infection among animals
- Reduce stress on animals to keep their immune systems strong.

**Consider practices such as:**

- Low stress cattle handling
- Low stress weaning techniques such as fence-line or two-stage
- Preconditioning calves

*Try our economics of preconditioning calculator at [beefresearch.ca/AMR](http://beefresearch.ca/AMR)*



***BeefResearch.ca/AMR***  
has the information you need to know about avoiding resistance through responsible antimicrobial use in beef cattle.

