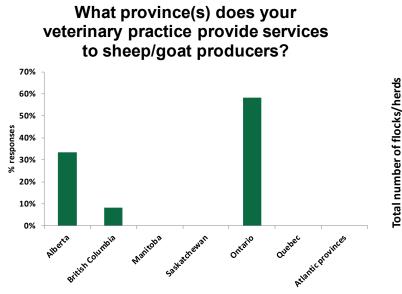
Sheep & Goat Lameness Survey of Small Ruminant Veterinarians

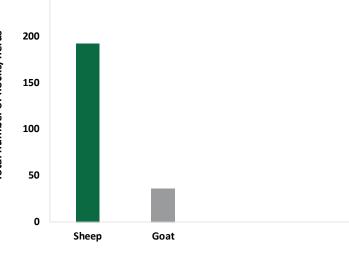
Contagious footrot is a bacterial infection common in sheep and goats that is caused by bacteria that live in the soil. The most commonly associated bacteria with ovine/caprine footrot are *Fusobacterium necrophorum* and *Dichelobacter nodosus*.

With the support of The Canadian Goat Society, we conducted a national survey to assess the importance of footrot disease in the sheep and goat livestock industries. We also assessed producer, producer organizations, and veterinarian willingness to support research for a Canadian-based footrot bacterin vaccine that would incorporate recent Canadian *F. necrophorum* and *D. nodosus* isolates.



SURVEY: 12 SMALL RUMINANT VETERINARIANS RESPONDED (10 SHEEP; 2 GOAT)

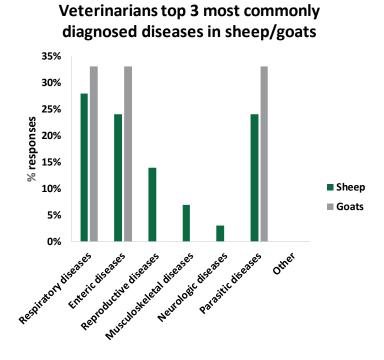


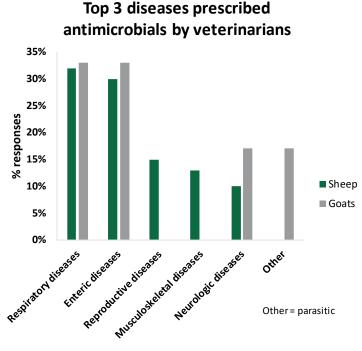


farms veterinary services provided



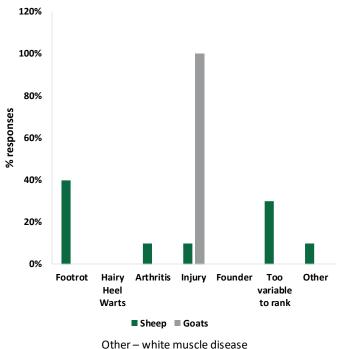
250





Other = parasitic

Most important cause of lameness as observed by veterinarians



ESTIMATED 1ST PULL TREATMENT **RATES FOR FOOTROT IN SHEEP**

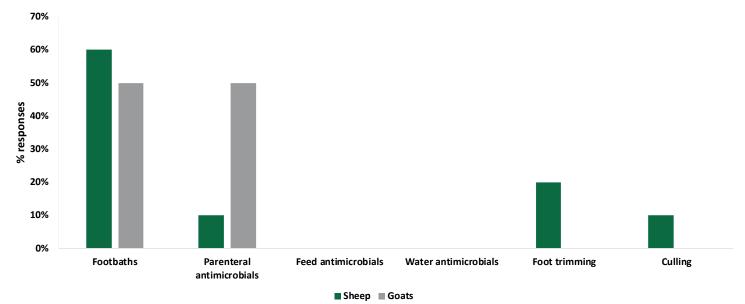
- Ewes: 5.0%
- Rams: 2.7% .
- Pre-weaned lambs: 1.3%
- Post-weaned lambs: 3.7% •
- 44% of sheep vets and 100% of goat vets didn't know

TREATMENT FOR FOOTROT

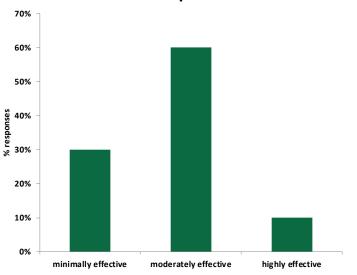
- Sheep: 70% uncommon; 30% common (between 5-20%)
- Goats: 100% uncommon

ESTIMATED CULLING RATE ROM FOOTROT IN SHEEP: 78% OF VETS DID NOT KNOW

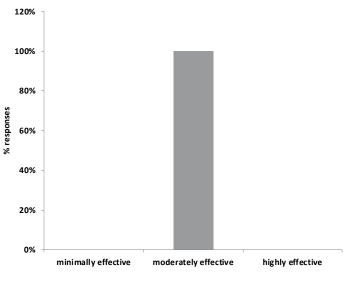
MOST IMPORTANT METHODS ACCORDING TO VETS TO PREVENT/TREAT/ CONTROL FOOTROT:

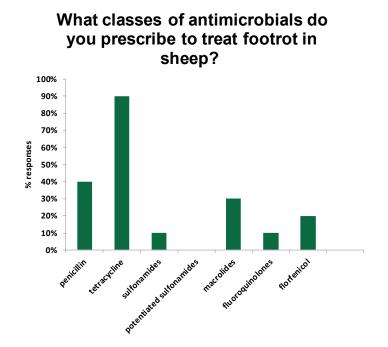


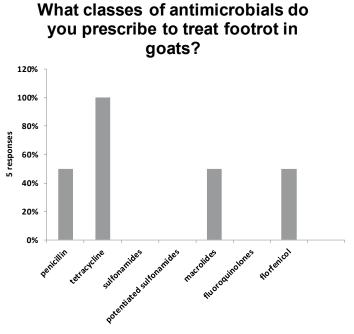
How effective do you think antimicrobials are to treat footrot in sheep?



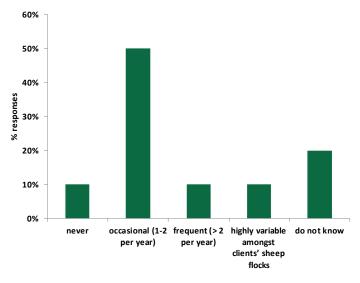
How effective do you think antimicrobials are to treat footrot in goats?



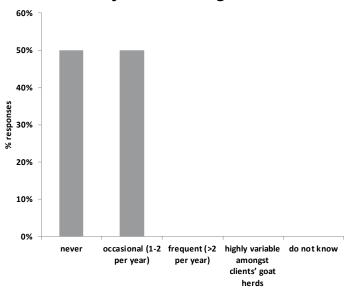




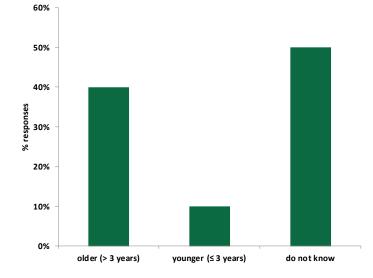
How common are outbreaks of footrot in your clients' sheep flocks?



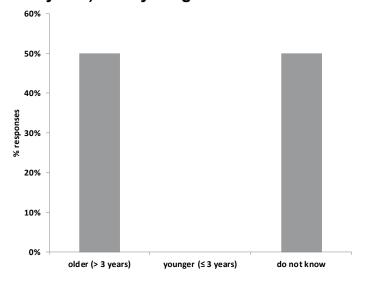
How common are outbreaks of footrot in your clients' goat herds?



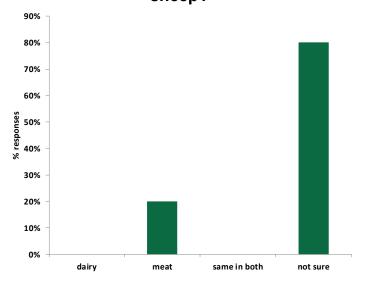
Do you observe footrot more commonly in older ewes/rams (>3 years) than in younger ewes/rams?



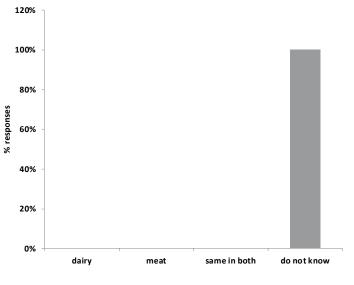
Do you observe footrot more commonly in older does/bucks (> 3 years) than younger does/bucks?

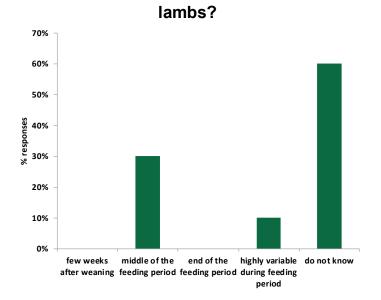


Do you observe more infectious footrot in dairy sheep than meat sheep?



Do you observe more infectious footrot in dairy goats than meat goats?

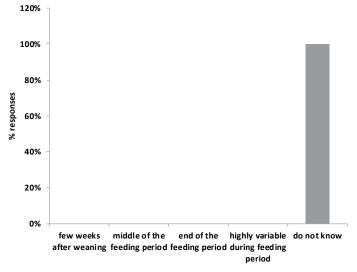




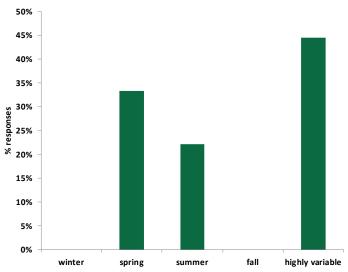
When, in days post-weaning, is

footrot most observed in feeder

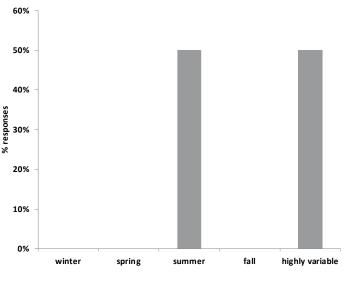
When, in days post-weaning, is footrot most observed in feeder goats?



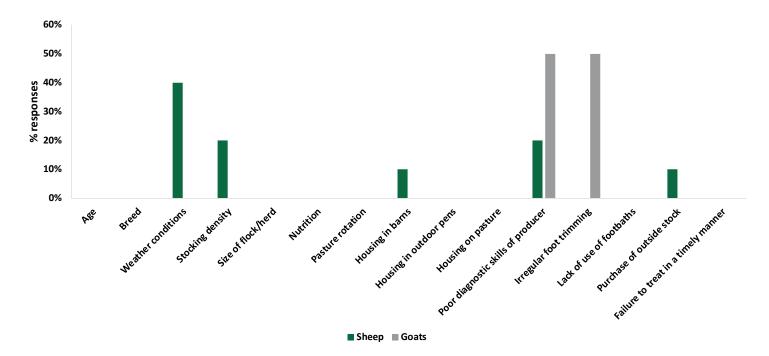
What season do you most commonly observe footrot issues in your clients' sheep flocks?



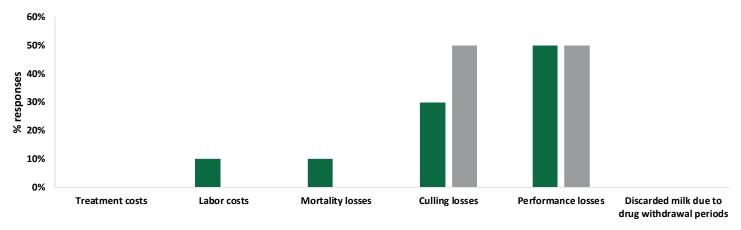
What season do you most commonly observe footrot issues in your clients' goat herds?



MOST IMPORTANT RISK FACTORS FOR FOOTROT AS OBSERVED BY VETS:

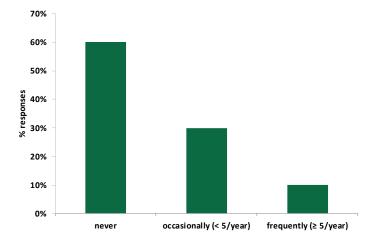


MOST IMPORTANT RISK FACTORS FOR FOOTROT AS OBSERVED BY VETS:

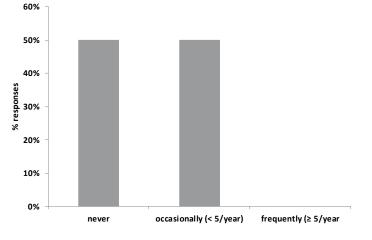


Sheep Goats

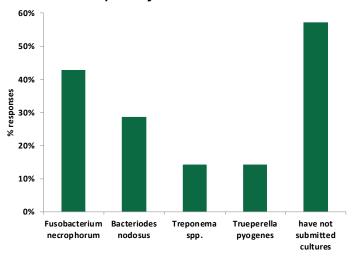
What frequency do you submit samples to a diagnostic lab from cases of lameness in your sheep flocks to determine the cause of the lameness?



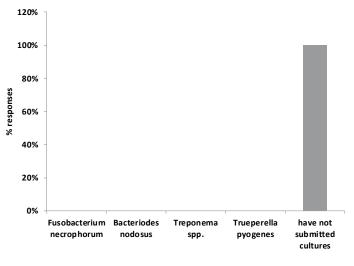
What frequency do you submit samples to a diagnostic lab from cases of lameness in your goat herds to determine the cause of the lameness?

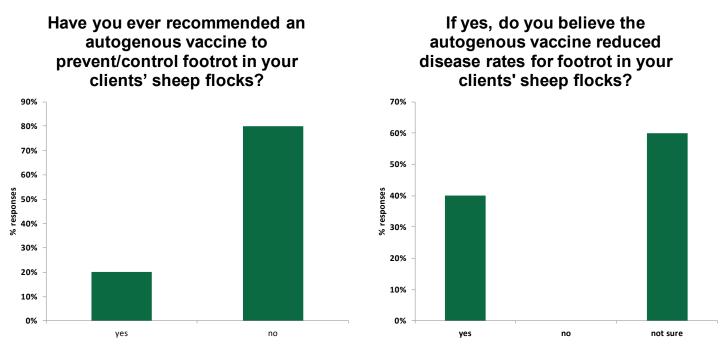


If you submitted samples to a laboratory for culture in the last year, what infectious organisms were cultured and determined to be pathogenic in cases of footrot in the sheep from your clients' flocks?



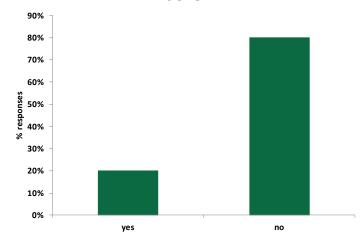
If you submitted samples to a laboratory last year, what infectious organisms were cultured and determined to be pathogenic in cases of footrot in the goats from your clients' herds?



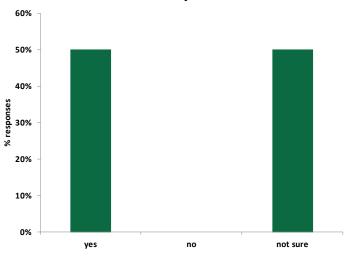


No goat vets recommended an autogenous vaccine or bovine footrot vaccine to control footrot in goat herds.

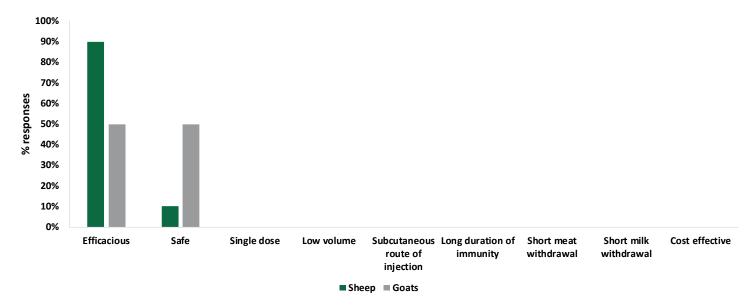
Have you ever recommended a bovine footrot vaccine e.g., Fusogard®, to prevent/control footrot in your clients' sheep flocks?

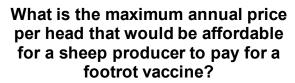


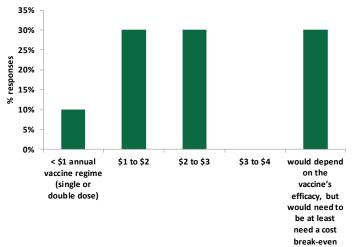
If yes, do you believe the bovine Fusogard® vaccine reduced disease rates for footrot in your clients' sheep flocks?



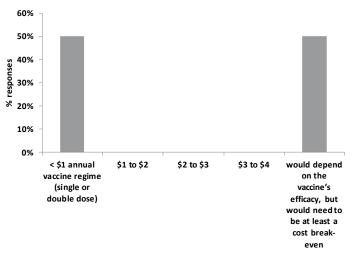
WHAT IS THE MOST IMPORTANT ATTRIBUTE OF AN OVINE/CAPRINE FOOTROT VACCINE:



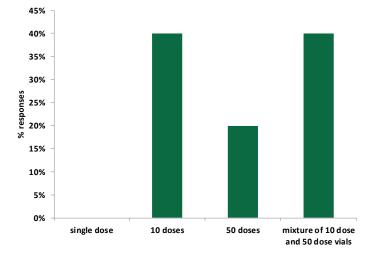




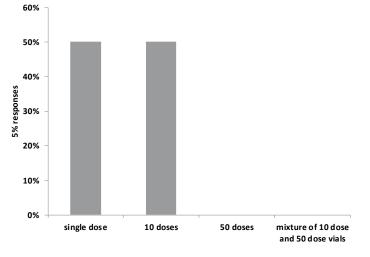
What is the maximum annual price per head that would be affordable for a goat producer to pay for a footrot vaccine?



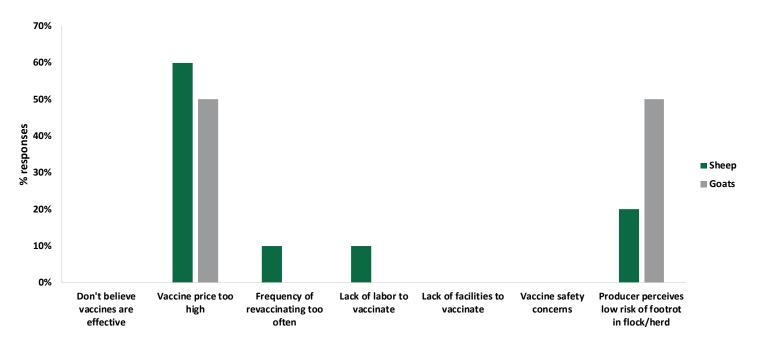
What size of dosage vials of footrot vaccine would work best for your sheep producers based on the size of their flocks?



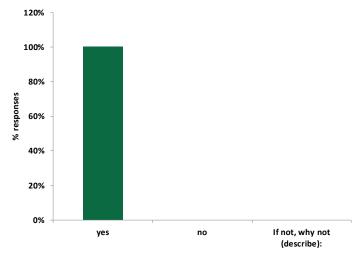
What size of dosage vials of footrot vaccine would work best for goat producers based on the size of their herds?



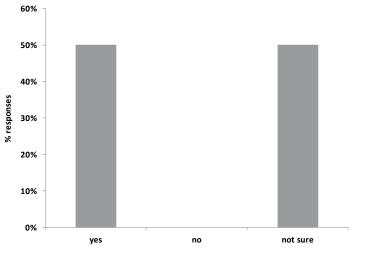
TOP FACTOR THAT WOULD LIMIT PRODUCER USE OF FOOTROT VACCINE:



If a Canadian-made footrot vaccine for sheep and goats were available and proven efficacious, would you recommend it?



If a Canadian-made footrot vaccine for sheep and goats were available and proven efficacious, would you recommend it?



PROJECT TEAM:

- Dr. Jose Perez-Casal
- Dr. Joyce Van Donkersgoed
- Dr. Karen Schwartzkopf-Genswein

ACKNOWLEDGMENTS:

- Small ruminant veterinarians that participated in survey
- Funding support from RDAR and VIDO



VIDO receives operational funding from the Government of Saskatchewan through Innovation Saskatchewan and the Ministry of Agriculture and from the Canada Foundation for Innovation through the Major Science Initiatives for its CL3 facility.

FOR MORE INFORMATION CONTACT:

Jose Perez-Casal Project Leader jose.perez-casal@usask.ca Andrew Van Kessel Director of Research andrew.vankessel@usask.ca

www.vido.org

JULY 2022





