



Could your organization use calcium chloride? "Nuts and Bolts"

Getting involved in field testing of nonsurgical sterilants:
Lessons learned, and what organizations and veterinarians should consider when getting involved

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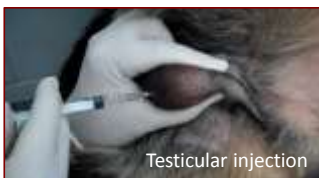


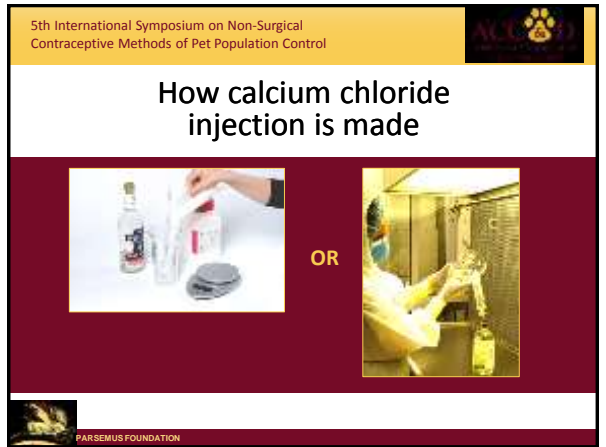
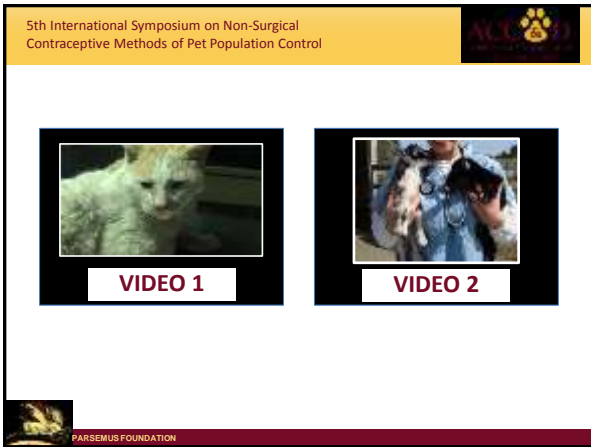
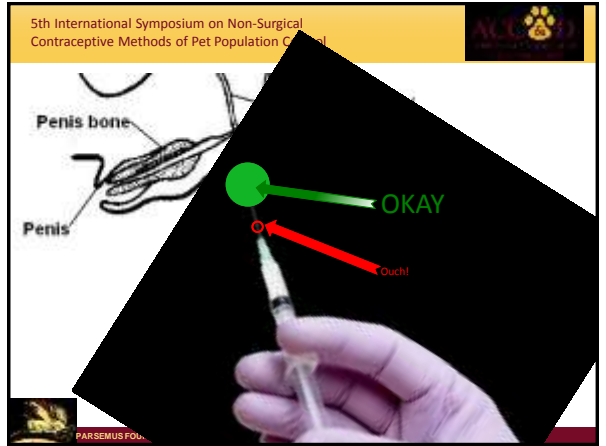
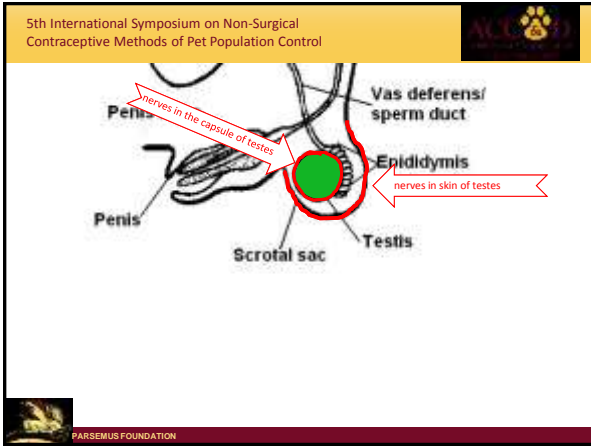
Overview

- How calcium chloride sterilization works
- How calcium chloride injection is made
- Could your organization use it? (regulatory)



How calcium chloride sterilization works







How calcium chloride is made

Ingredients:

20% calcium chloride dihydrate USP

Pure pharmaceutical-grade alcohol



mixed and sterile filled in vials



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How calcium chloride is made



If a compounding pharmacy isn't available ...



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How calcium chloride is made



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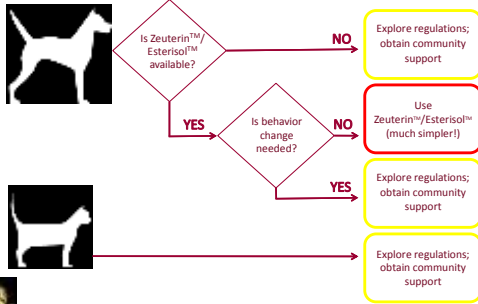


2,500 dogs



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When might it be appropriate?



Could your organization use it?



Investigational New Animal Drug # _____ ?

Regulatory Status

COUNTRIES WITHOUT STRONG VETERINARY REGULATORY STRUCTURE



"Greatest good" standard For animal and community

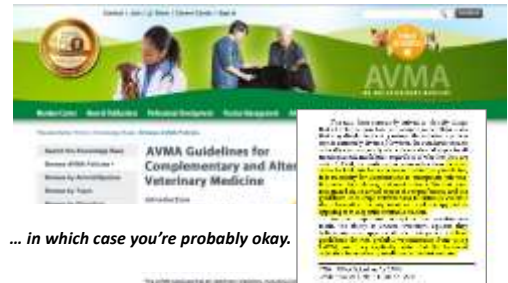
COUNTRIES WITH STRONG VETERINARY REGULATORY STRUCTURE (e.g. Europe, Canada, Mexico, S. Africa, Brazil, Australia, Argentina, Indonesia)

"it depends"

UNITED STATES



Is it "Complementary and Alternative Veterinary Medicine?"



... in which case you're probably okay.



Or is it "Extralabel Drug Use," in which case there are conditions to meet?



... But it can't be, because there is no labeled drug on the market.



But isn't compounding from bulk substances illegal according to the FDA?



...Yes, but the AVMA recognizes circumstances in which it may be medically necessary.



Current Status of Calcium Chloride



How brave are you?



In any case, follow best practices, including:

- read all peer-reviewed literature
- establish a patient relationship
- start slowly
- keep records
- follow up
- be prepared to treat or surgically castrate any animals that have problems
- until confident in technique and outcome, use only in animals that can be monitored (no TNR use)

And seek community support, including:

- thought leaders
- local animal lovers
- colleagues
- local officials
- local agitators
- regional veterinary society / veterinary board
- state or country-level regulators

...more detail at our table and on the USB flash drive.



Your Options

Try it out

- Read everything
- Start small
- Try first where there is no other option?
 - bleeding diseases (van Willebrand's)
 - remote conditions without surgical facilities
 - anesthesia risk due to age/condition

Wait it out

- Use Zeuterin™ if behavior change not necessary (dogs only)
- Encourage funders to take CaCl through the regulatory process

Shout it out

- Spread the word
- Join the effort on Facebook

Considering the first option?

**Get the data at our table and on the USB
flash drive.**



Thank you to everyone involved!

These experts can answer questions:

Research & Field Expertise



Kuladip Jana
cat and dog studies in India



Raffaella Leoci
dog studies in Italy

Program Mgmt/ Regulatory



Kevin Morris *
-FDA program liaison
-Community partners liaison
* (see below for details)



Douglass Oeller
Douglass Oeller Consulting
Program manager, FDA submission



Linda Brent
Grants manager,
calcium chloride research

