

5th International Symposium on Non-Surgical
Contraceptive Methods of Pet Population Control

**ACCOON
Non-Surgical Contraception**

Approaches with Potential for Nearer-term Impact

**CALCIUM CHLORIDE INJECTION
for male cats and dogs**

Elaine Lissner
Parsemus Foundation
June 22, 2013

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Mode of Action



Testicular atrophy

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How It's Different from Zinc Gluconate

- Reduces testosterone substantially,
enough to impact behavior : **YES**
- FDA approved : **NO**
- Available now : **YES**

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Why Calcium Chloride Has Current or Near-Term Potential

- Known to work
- Cheap
- Substantial published safety data
- Readily available,

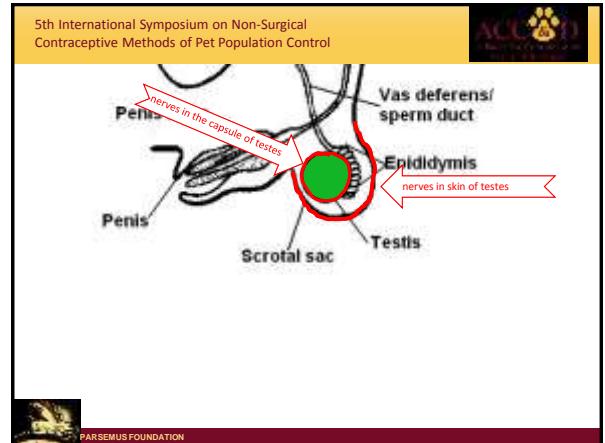
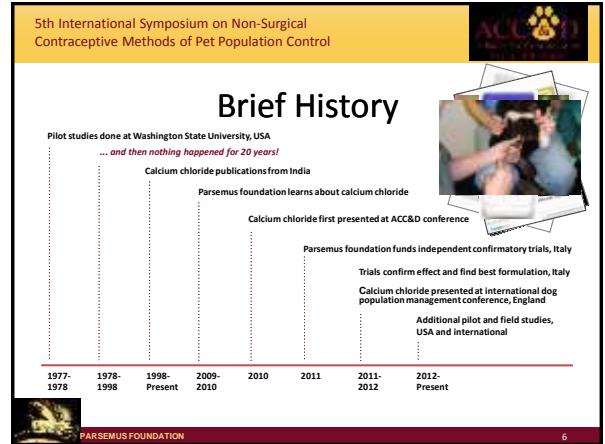
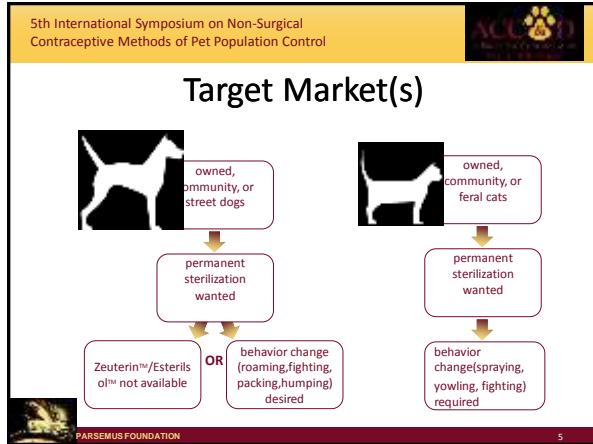


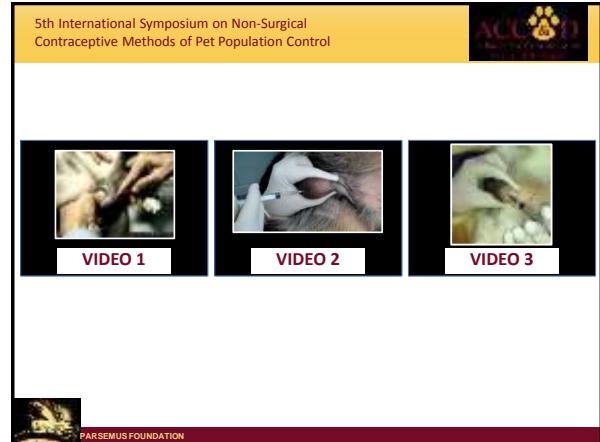
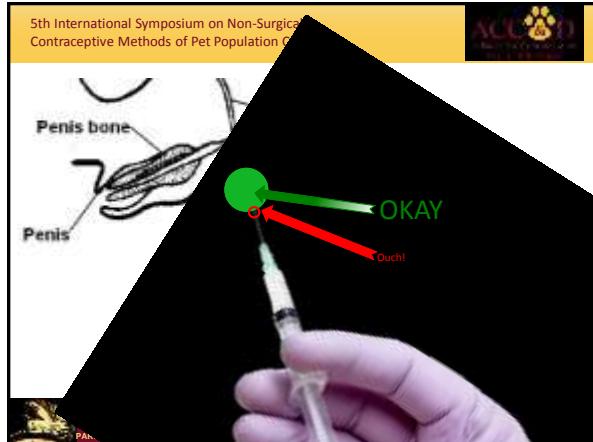
OR



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Research 1977 to Present

Year	Researcher	Species
1977	Koger - USA	various
1977	Koger - USA	bulls
1978	Bowman, Koger - USA	rams
1978	Koger - USA	various
1988	Jana, Samanta - India	dogs
2002	Jana, Samanta - India	rats
2006	Jana, Samanta - India	goats
2006	Jana, Samanta - India	rats
2006	Cengelci et al - Turkey	bulbs
2007	Jana, Samanta - India	dogs
2010	Jana, Samanta - India	cats
2010	Jana, Samanta - India	cats
2011	Jana, Samanta - India	cats
2012	Parsemus Foundation - USA	dogs
2012	Parsemus Foundation - USA	goats
2012	family farm - USA	cats
2012	Field-Kollata, India	dogs
2013	Lecoc et al - Italy	goats
2013	Lecoc et al - Italy	dogs
2013	Lecoc et al - Italy	dogs

studies in black – published
studies in gray – unpublished

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Key Published Research

Year	Researcher	Species
1977	Koger	various
1977	Koger	bulls
1978	Bowman, Koger	rams
1978	Koger	various
2007	Jana, Samanta	dogs
2011	Jana, Samanta	cats

Clinical Reports

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Research Underway or In Publication

In press

- Leoci et al., 80 dogs, Italy
KEY RESULT: ALCOHOL IS MORE EFFECTIVE BASE THAN LIDOCaine OR SALINE

Under way

- Field trial, ~40 dogs, Pakistan
Data being gathered: testosterone levels and testicular photos, before and after
- Dose determination study, kittens, India

Planned

- FDA-oriented safety studies in cats, USA

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Commercialization/Availability Status

Current	Anticipated
	
OR	?

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Regulatory Status

COUNTRIES WITHOUT STRONG VETERINARY REGULATORY STRUCTURE  <p>"Greatest good" standard For animal and community</p>	COUNTRIES WITH STRONG VETERINARY REGULATORY STRUCTURE (eg Europe, Canada, Mexico, China, S. Africa, Brazil, Australia)  <p>"it depends"</p>	United States 
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Challenges

"if only there were

- Unawareness
- Squeamishness
- Fear of condemnation
- Financial



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the best practices for the future ...
the problem with many to fit into solve ...

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OR

Which is worse?

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Challenges

- Unawareness
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Summary

- Similar concept to zinc gluconate, but not FDA approved
- Available now, easy to make, and known to work
- Substantial recent data provides new evidence of safety
- Fear of medical/legal/regulatory exposure is key obstacle to widespread use

Want more info? 1:30pm, Field Implementation track

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Thank you to everyone involved!

These experts can answer questions:

Research & Field Expertise			
	Kuladip Jana cat and dog studies in India	Raffaella Leodi dog studies in Italy	
Program Mgmt/ Regulatory			
	Kevin Morris * FDA program liaison Community partners liaison <small>*photo borrowed</small>	Douglas Oller Douglas Oller Consulting Program manager, FDA submission	Linda Brent Grants manager, calcium chloride research

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slide 15: African boys with dog
Photo credit: AP

slide 16:
 Photo credit: CellHammond.org/Images/pagemaker/250909forstrays_patra_1.jpg
Photo credit: CellHammond.org

clinic cat
<http://theresilientcat.net/wp-content/uploads/2013/01/ClinicCats.jpg>
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caged dogs
 Source: AnimalHumane.com/Images/webpics/1150_caged_dogs.jpg
Source: SmilyDk.com

two stray cats fighting
 Photo credit: AAAnimalControl.com
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www.animalrescueau.com.au_2012_03_maddies_and_daves_and_a_kitten_in_a_box_1.jpg
<http://www.savingpets.com.au/animal-rescue-and-welfare/animal-rescue/the-best-animal-rescue-sites-in-the-world/>
Source: SavingPets.com.au

scared kitten in cage
 Photo credit: Amy Morris, GlobalAnimalRescue.blogspot.com
<http://j1.tn.Blogspot.com/2012/03/animal-rescue-and-welfare-the-best-animal-rescue-sites-in-the-world.html#.UxJbV31PA>
Photo credit: Amy Morris, GlobalAnimalRescue.blogspot.com

crowd of cats
 Source: Wikimedia Commons
Source: Wikimedia Commons

dogs being collected on the back of a white truck
 Photo credit: GlobalAnimalRescue.blogspot.com/2012/03/animal-rescue-and-welfare-the-best-animal-rescue-sites-in-the-world.html#.UxJbV31PA
Source: Alley Cat Rescue

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