

PRESENTATION POWERPOINT

International Needs: The Roles for New Tools

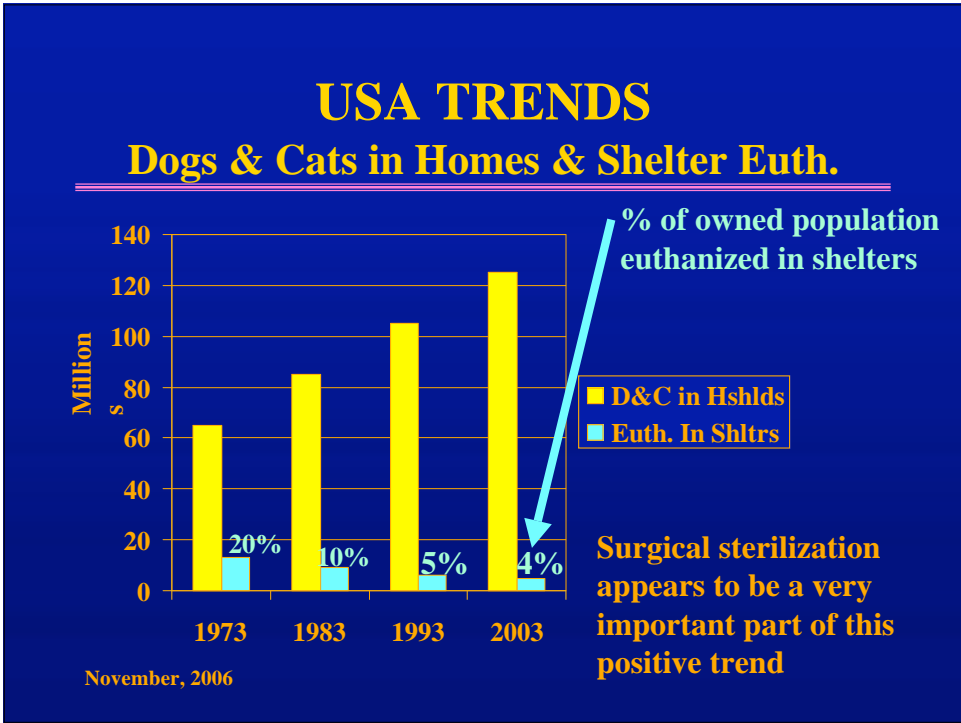
Dr. Hugh Wheir, founder and executive director of Animal Alliance, presented for Dr. Andrew Rowan of HSUS.

**DO WE NEED A NON-SURGICAL
STERILANT?**

by

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Washington, DC

November, 2006



Session VI: Who Needs a Nonsurgical Sterilant Anyway?

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CURRENT REPRO. STATUS WORLD DOG POPULATION

<u>Popltn. Segmnt.</u>	<u>Repro.</u>	<u>Envir.</u>	<u>USA</u>	<u>Devlp. Ctry.</u>
Owned & Supervsd.	Low & Contrlld	Contrlld	80%	2-10%
“Owned” Unsuperv.	High	Shelter & food provided	15+%	10-50%
Unowned, Tolerated	Low due to mortality	Garbage & Scraps	1-5%	40-80%

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Adapted From: A.I. Wandeler, 1985

Dogs in Developing World

- Average is about 10 dogs per 100 people
- Range from 2 (low values, mainly urban) to as high as 35 (e.g., Mexican villages, suburban white South Africans)
- 400-600 million dogs total
- Needs to be inexpensive: < \$1 per dose?
- Sterilants not contraceptives
- Change human attitudes!!!

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From: R. Brooks, 1990 (Zimb); K.K.I.M. De Balogh et al, 1993 (Zambia); J.S.J. Odendaal, 1994 (Safrica).

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Surgical Approach in Developing World?

- **Surgical approach has succeeded in U.S. – because of veterinary (and, to lesser degree, owner) behavior change**
- **Surgical approach showing interesting success in developing countries**
 - Mexico: State of Puebla – public health authorities
 - Bali, Indonesia: welfare improvements
 - India: Jaipur, Chennai, Jodhpur – rabies projects
 - Bahamas: Abaco – reduce street “potcakes”
 - Galapagos: Animal Balance project – reduce impact on wildlife

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Surgery Costs

- **USA**
 - \$33 to \$65 per surgery
- **Developing World**
 - Sri Lanka – 4,500 surgeries in 10 months @ \$35
 - Jaipur – 2,500 surgeries/year @ \$30
 - Galapagos – 323 surgeries @ \$110
 - Jodhpur – 10,000 surgeries/year @ \$10

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Nonsurgical Approaches

- **Injectable**
 - Remote delivery possibility
 - Sterilant versus contraceptive
 - Diminish reproductive behaviors?
- **Costs**
 - Under \$5 per dose to acquire & deliver

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ISSUES

- **HUMANE POPULATION CONTROL**
 - NOT necessarily require high-tech and/or expensive approach, e.g., sterilization in first instance.
- **First Needs KNOWLEDGE of people's attitudes and especially behavior**
- **NEED Human Behavior Change**
 - “Ownership” & “Control”
 - Dog “functions” – guard, companion, hunting aid

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CONCLUSIONS

- **U.S. Model (L.E.S.) has been very successful but is it suitable for the developing world?**
- **Address local cultures & neighborhood dog aspect – also welfare issues (high puppy mortality, parasites, infections).**
- **Killing not successful.**
- **New technologies could be breakthrough.**

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