



Contraceptive Research

Perspectives on Laboratory and Field Research Considerations

Moderator:

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HSI Contraceptive Research

- **Limited to pZP in dogs (South African trial)**
- **Inconclusive results re contraception but DO NOT use MFA**
- **Most of projects have been surgical sterilization – over 200,000 dogs sterilized in various projects (65,000 in Bhutan, 65,000 in Haryana, 21,000 in Jamshedpur, 40,000 in Costa Rica) – may be of interest to this audience?**
- **Cost runs around \$20 in Asia, and \$12 in CR**

pZP project in South Africa

- **Working with South African shelter with expert veterinary staff support – provided dogs; spayed and adopted out at end of study**



- **Ultimately unsuccessful – inconclusive results**

Catching dogs

- **Metal tongs & wire nooses – definitely inhumane**
- **Nets – better but dogs learn and still humane issues**

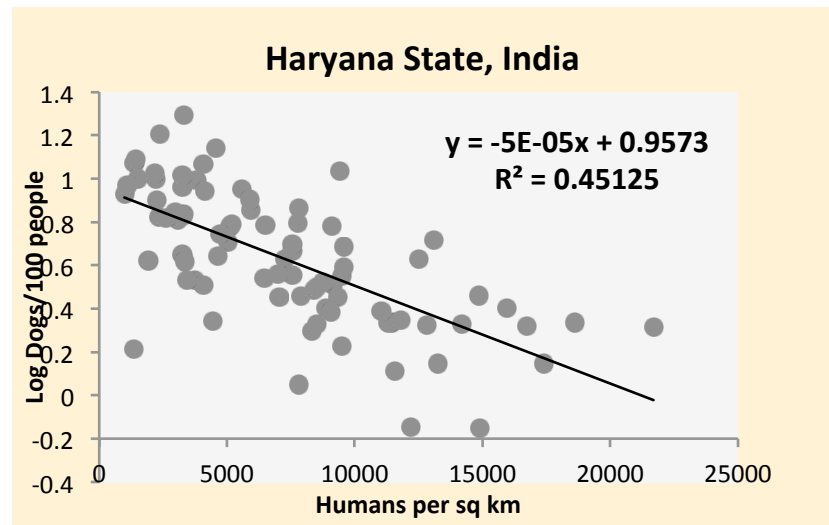


- **Hand-catching – 60% in Jamshedpur and has big impact on local community! Educate by doing.**



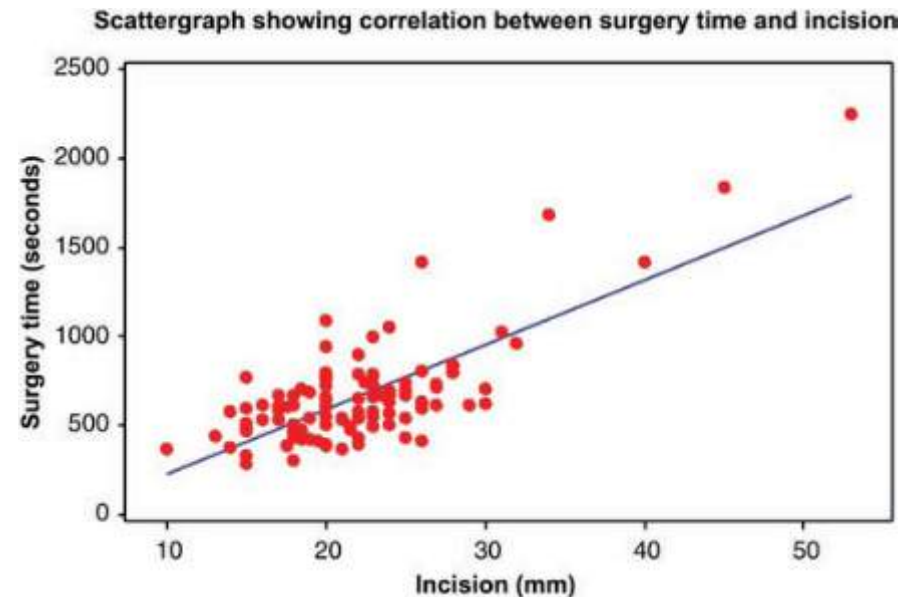
HSI Fertility Control - 1

- **Must understand human-dog interaction and dog demographics**
- **Big variation across globe in “private”/street dog distributions and overall human-dog ratios (from 1 dog per 1,000 humans to 800)**
- **Human density dependence**



HSI Fertility Control - 2

- Use local veterinarians – train young graduates to do high volume, small incision surgeries.
- Jaipur project showing time of surgery and size of incision.
- Post-op pain also varies by incision length



Actual Surgery Times

- From Jamshedpur Project – some veterinarian to veterinarian differences – not seen below – but big variation by age of dog (but not gender)

| | Surgeon A | | Surgeon B | |
|------|---------------------|-----------------------------|---------------------|-----------------------------|
| | Average stay (days) | Average surgery time (mins) | Average stay (days) | Average surgery time (mins) |
| F | 1.884 | 16.5 | 1.701 | 17.2 |
| Fpup | 1.638 | 5.6 | 1.622 | 5.5 |
| Fy | 1.764 | 12.1 | 6.042 | 12.2 |
| M | 1.969 | 18.4 | 1.857 | 18.5 |
| Mpup | 1.785 | 5.3 | 1.670 | 5.3 |
| My | 1.918 | 12.1 | 1.924 | 12.2 |

Surgical Sterilization Projects

- Possible to develop veterinary skills to perform quick (under 10 minutes) surgeries with low rate of adverse outcomes – ca. \$15-20 per animal
- Bhutan, Jamshedpur, Haryana, Philippines – 10,000s of surgeries (post-op mortality – not incl. euthanasia) around 0.2-0.6% – lower in Jaipur – ca. 0.1%)
- Engage community for best best results



Conclusions

- **Do survey of community before starting if appropriate to determine # of private & street dogs**
- **Huge variation in number of dogs from one community to another but number in each community relatively stable over time**
- **Try to catch dogs by hand (food treats) to start – has positive impact on community-dog interaction**
- **Handling and vaccinating/treating/sterilizing dogs has positive educational impact**
- **Dog numbers not necessarily reduced even with intensive sterilization – dog numbers “culturally” determined?**