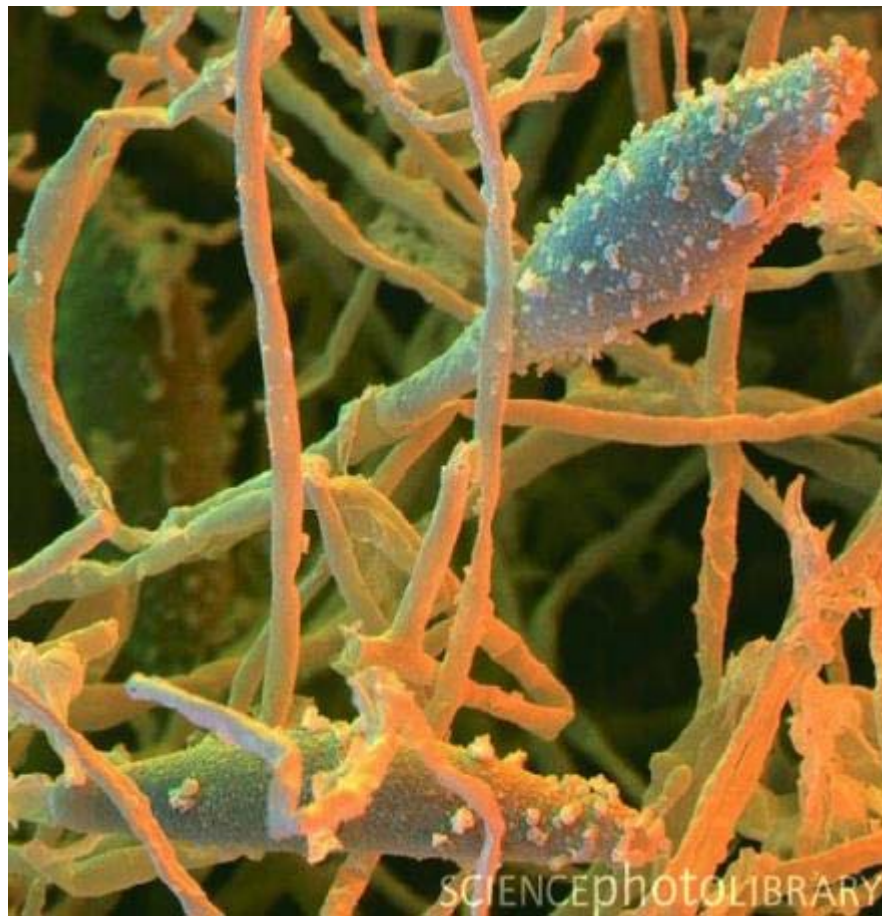


Shelter Sanitation Best Practices: Part 2 (Case Studies)



Thank you for joining me today!
Feel free to contact me at:

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Case 1: Ringworm in Foster Home



Context

3 week old kittens
sent to foster



2 weeks later,
hair loss noticed &
ringworm confirmed



Contaminated
bathroom &
bedroom



Photo: Fixnation.org

The Good News!

“Environmental decontamination is to prevent fomite contamination...[but] infection from the environment alone is rare...”

“Diagnosis and treatment of dermatophytosis in dogs and cats.” Clinical Consensus Guidelines of the World Association for Veterinary Dermatology. Moriello et al. Vet Derm 2017.28:266-e68

Challenges

Contaminated foster home

Decon
hard
surfaces

Decon
carpet

Decon
laundry

Strategies: Hard Surfaces

Many over-the-counter disinfectant products with antifungal label against *Trichophyton mentagrophytes* are effective when the surface is properly prepared.

Mechanically remove debris, including hairs & spores



Wash with a detergent until visibly clean & rinse



Follow up with a disinfectant – apply liberally for 10 min

Most important part of decon

“Efficacy of eight commercial disinfectants against *Microsporum canis* and *Trichophyton* spp. Infective spores on an experimentally contaminated textile Surface.” Moriello et al. Vet Derm.2013;24.21-e152.

Strategies: Daily Spot Cleaning

Less stressful

Reduced fomite transmission

Increased safety & efficiency

Reduced use of irritating
disinfectants



<http://aspcapro.org/resource/video-spot-cleaning-cat-kennels>

Thorough sanitizing once vacated

Strategies: Carpet

Vacuum



Carpet shampooer
w/ detergent (twice)
or
hot water extraction
w/ detergent

For heavy contamination:
pretreat w/ disinfectant



Photo: homeadvisor.com

“Decontamination of carpet exposed to *Microsporum canis* hairs and spores.” Moriello, K. JFMS.2017:19(4).435-439.

Strategies: Laundry



1. Separate exposed laundry
2. Don't overload → want maximal agitation
3. Any temperature
4. Two washes, longest cycle
5. Bleach doesn't matter

“Decontamination of laundry exposed to *Microsporum canis* hairs and spores.”
Moriello, K. JFMS.2016;18(6).457-461.

Lessons Learned: Foster Home Biosecurity

Designated
area

PPE

Plastic toys

Cont. to socialize via proper
handling

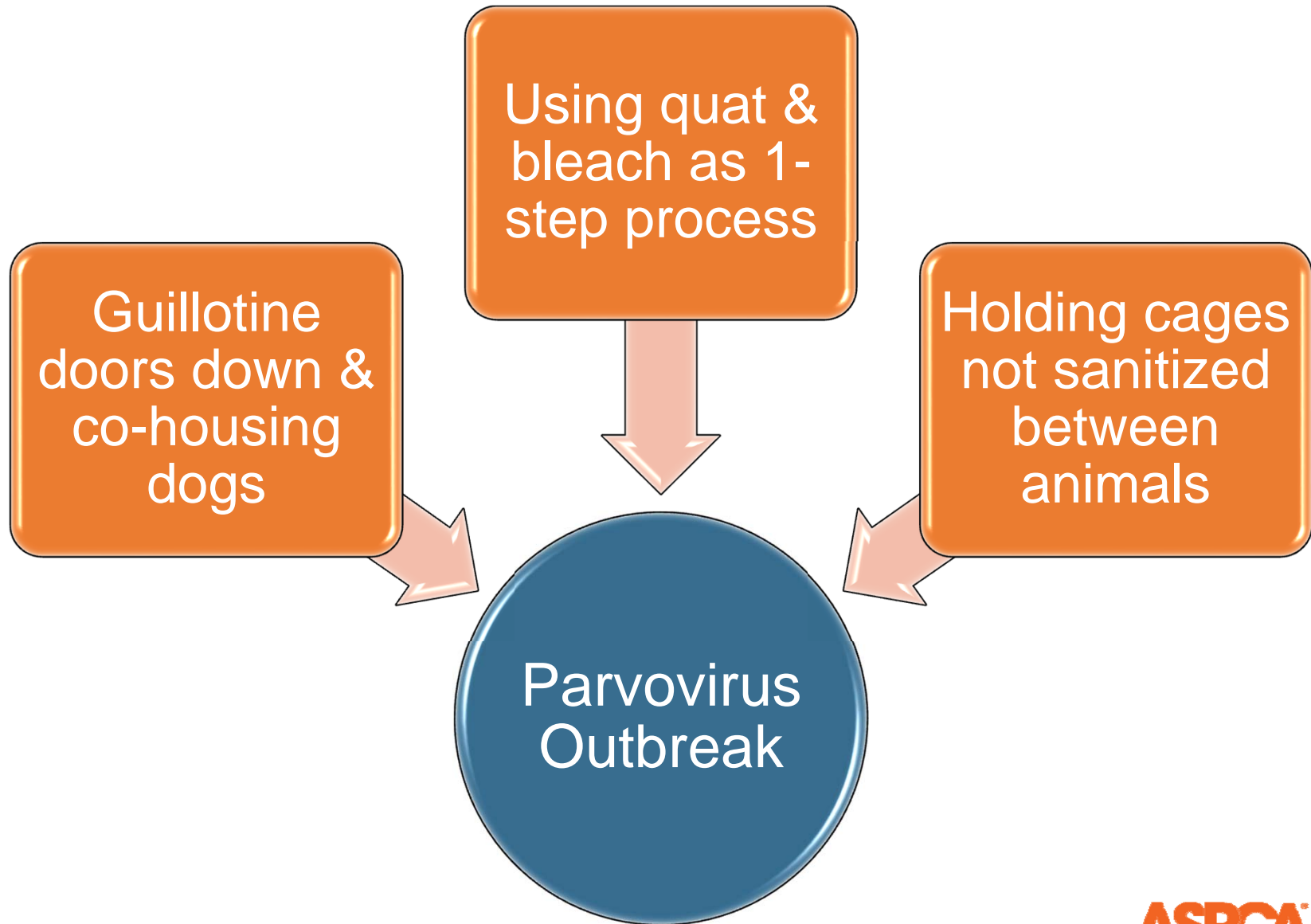
- Remove hair daily & clean
- Twice weekly sanitation

Training & protocols on disease
transmission & zoonosis potential

Case 2: Parvovirus in the Shelter



Context



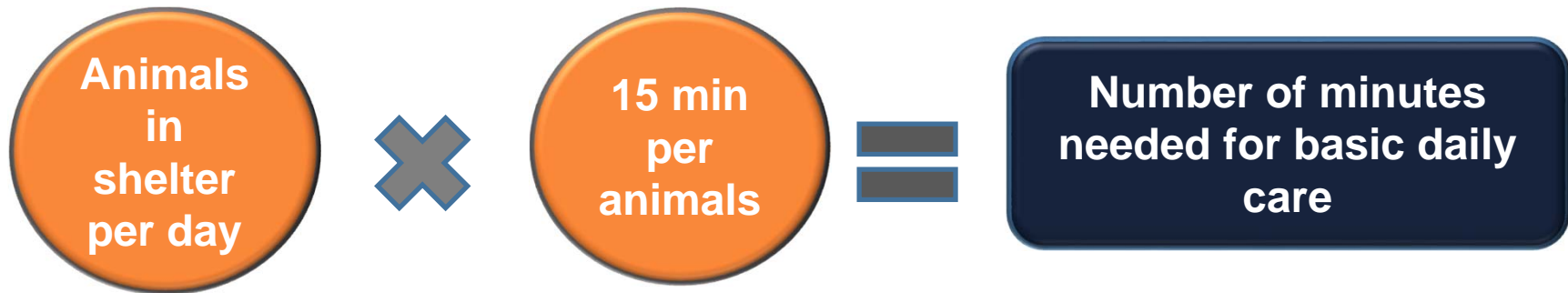
Challenges

Not able to use
housing ideally

Not sanitizing
common
points of
contact

Lack of compliance with
two-step sanitation
process

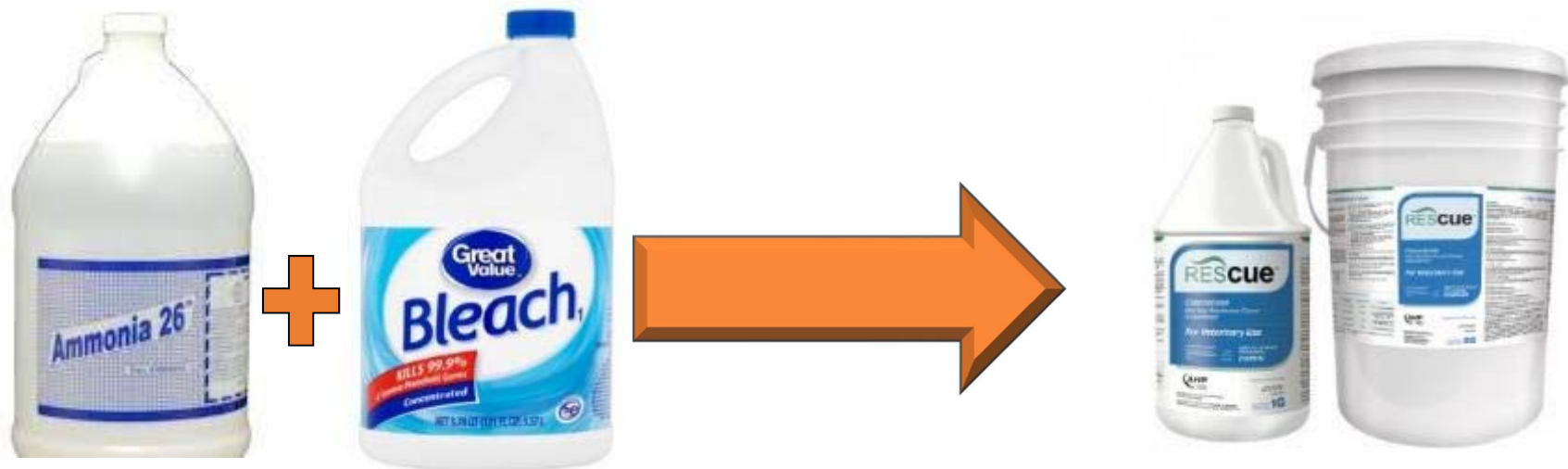
Strategies: Optimize Staffing Capacity



50 animals daily x 15 min care = 12.5 hrs daily care
With 4 staff → 12.5 hrs/4 staff = **3.1** hours of care daily

100 animals daily x 15 min care = 25 hrs daily care
With 4 staff → 25 hrs/4 staff = **6.25** hours of care daily

Strategies: Disinfectant Change



Requires strict protocol adherence

Requires two distinct products

Quat ineffective against parvo

Quat may inactivate the bleach

Confidence in efficacy & staff compliance

Two-in-one product

5 minute contact time when used at 1:16 (8oz/gal)

Non-toxic

Additional Strategies for Prevention



Avoid Grassy Areas



Use Areas Easily Disinfected

Photos: Koret SMP

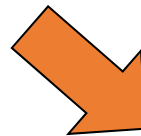
ASPCApro

Additional Strategies for Prevention



Avoid High Pressure Hoses

Photo: Pirtek



Use Scrub Brushes & Low Pressure (90-120 psi)

Photo: Global Industrial

Additional Strategies for Prevention



Avoid Single-sided Housing



Use Double-sided Housing

Photos: Koret SMP

Additional Strategies for Prevention



**Use Hand
Sanitizer**



Photo: CDC

Use Gloves & Wash Hands

Additional Strategies for Isolation



Photo: Koret SMP

Avoid Foot Baths



Photo: Koret SMP



Photo: Galetton

**Use Dedicated
Booties &
Additional PPE**

Additional Strategies for Isolation



Photo: Moontech K9



Avoid Mops



Photo: Bismarck Boarding

Use Drainage System & Dedicated Equipment

Additional Strategies for Isolation



Avoid Congestion



Limit Traffic

Photos: Koret SMP

Additional Strategies for Isolation



Photo: Dr. Stephanie Janeczko

Avoid Prolonged Closures



Use SOPs & Checklists for Confidence

Lessons Learned: Parvovirus Sanitation

Product selection that optimizes
compliance & reduces workload

Extra attention to common points of
contact

Training & protocols on
infection control

Confidence
in your
protocol

Disinfectant Selection

Non-enveloped viruses (parvo, panleuk, calici):	Organic matter (wood, yards, porous surfaces):	Ringworm	Respiratory pathogens (including canine distemper):
<p>Accelerated hydrogen peroxide</p> <p>Potassium peroxymonosulfate</p> <p>Bleach</p> <p>Calcium Hypochlorite</p>	<p>Accelerated hydrogen peroxide</p> <p>Potassium peroxymonosulfate</p>	<p>Accelerated hydrogen peroxide</p> <p>Potassium peroxymonosulfate</p> <p>Bleach</p> <p>Quaternary ammoniums*</p> <p>*over-the-counter quats prove effective WITH thorough cleaning</p>	<p>Any**</p> <p>**calicivirus & adenovirus-2 are non-enveloped respiratory viruses requiring a selective disinfectant</p>

Thank you for joining!

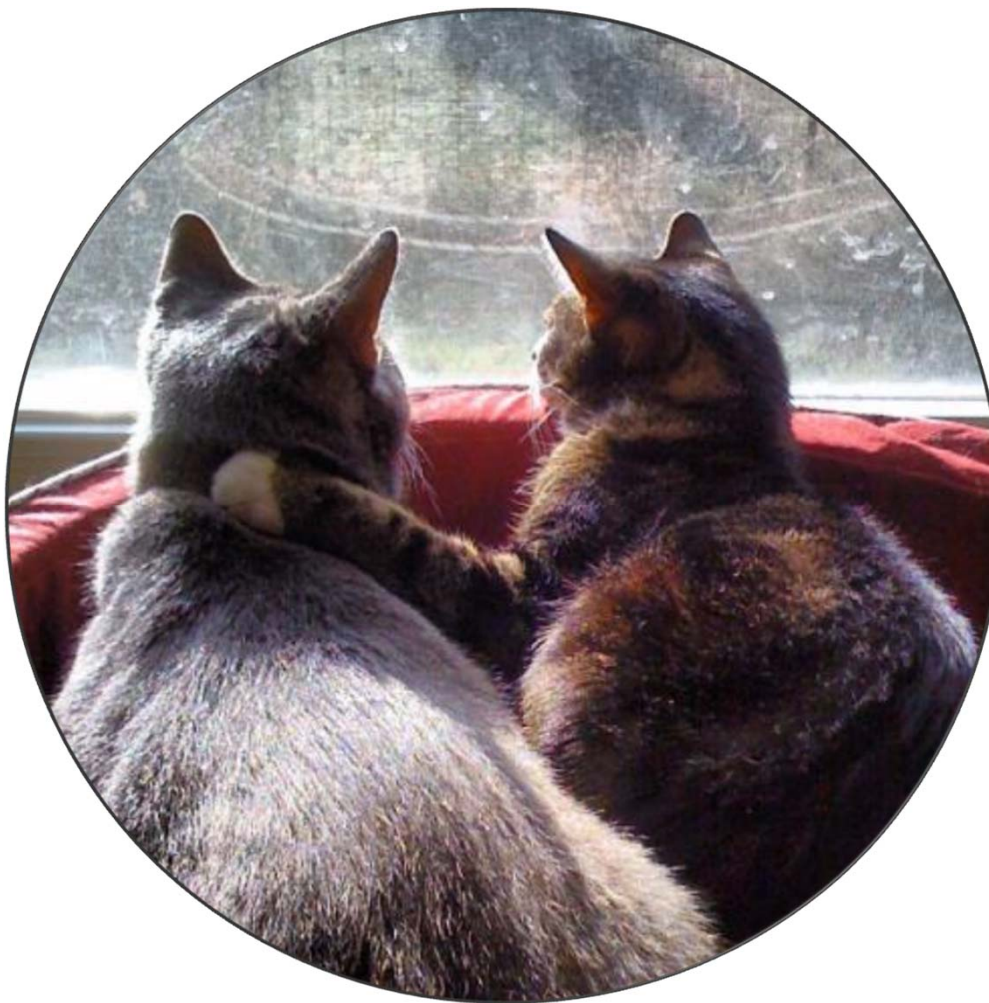


Photo: Dr. J. Lamb