Shelter Sanitation
Best Practices: Part 1

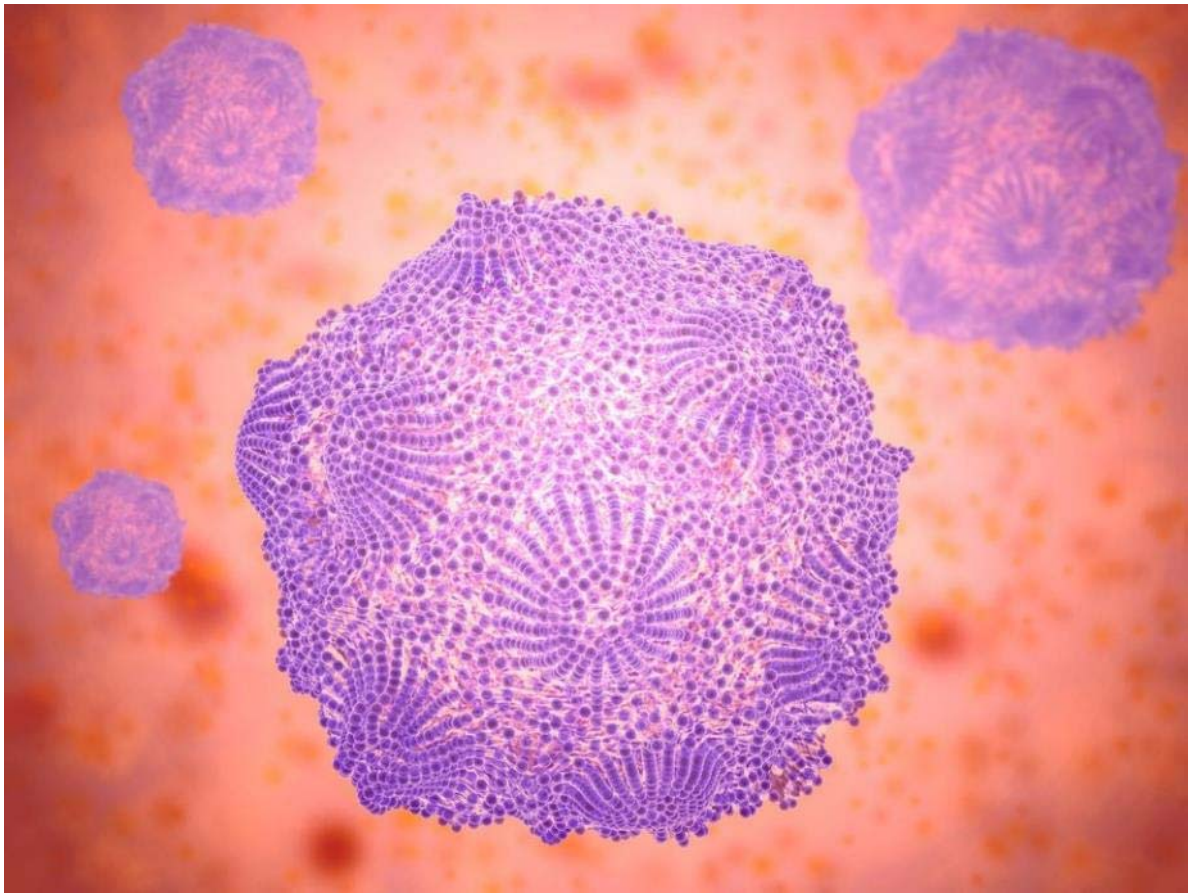

Photo: Getty Images

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Thank you for joining me today!

Feel free to contact me at:

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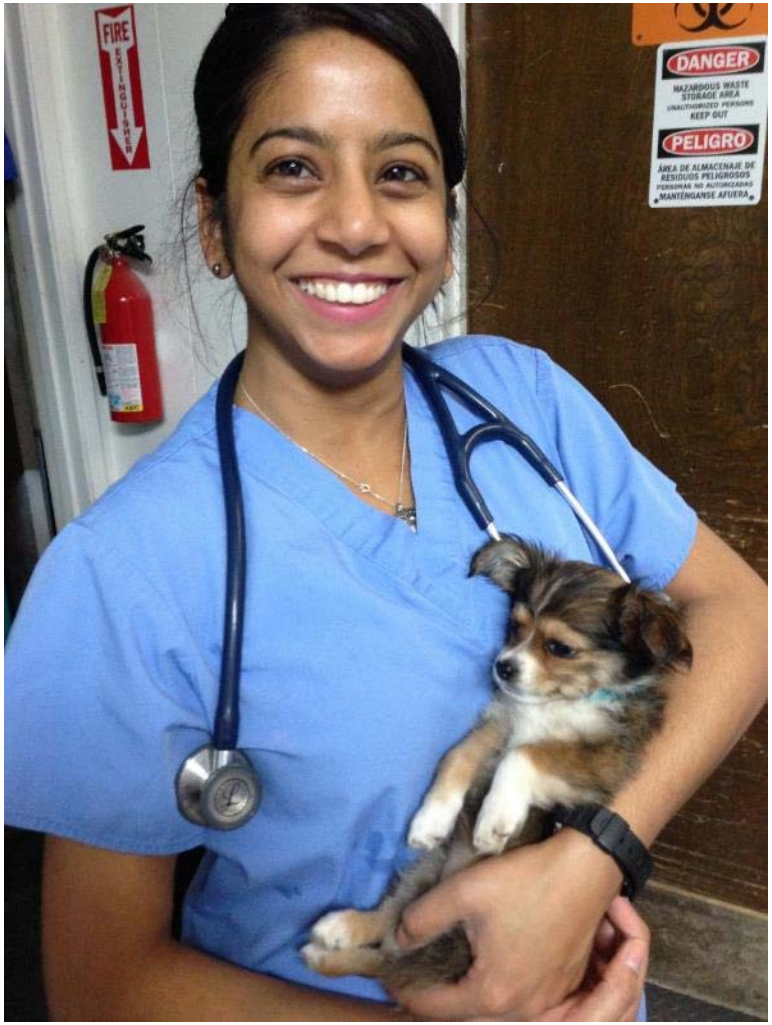

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Sanitation Goals

Protect animals from disease

Protect staff, volunteer, visitor health

Create a welcoming environment

Use resources wisely

Photos: Koret SMP

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Creating a Sanitation Protocol

1. Assess shelter risk factors
2. Develop sanitation policies
3. Train staff/volunteers
4. Ensure consistent implementation

1 Assessing Shelter Risk Factors for Infectious Disease

- Vulnerable Population
- Endemic Disease in Community
- Operating Beyond Capacity for Care
- Less than ideal housing, facility
- Staffing Capacity
- Stress

Photo: Koret SMP

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Disease Transmission

Fomites

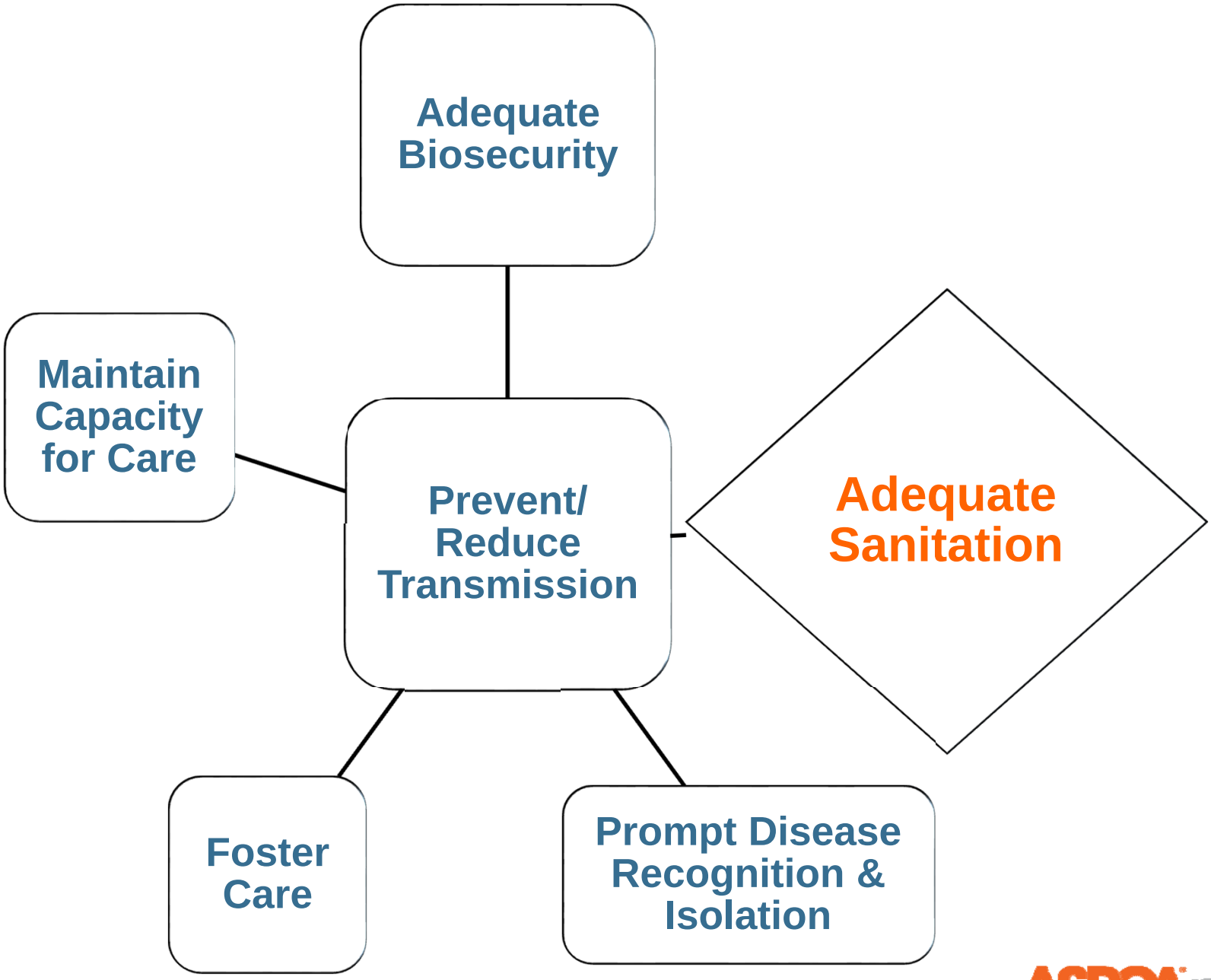
Direct

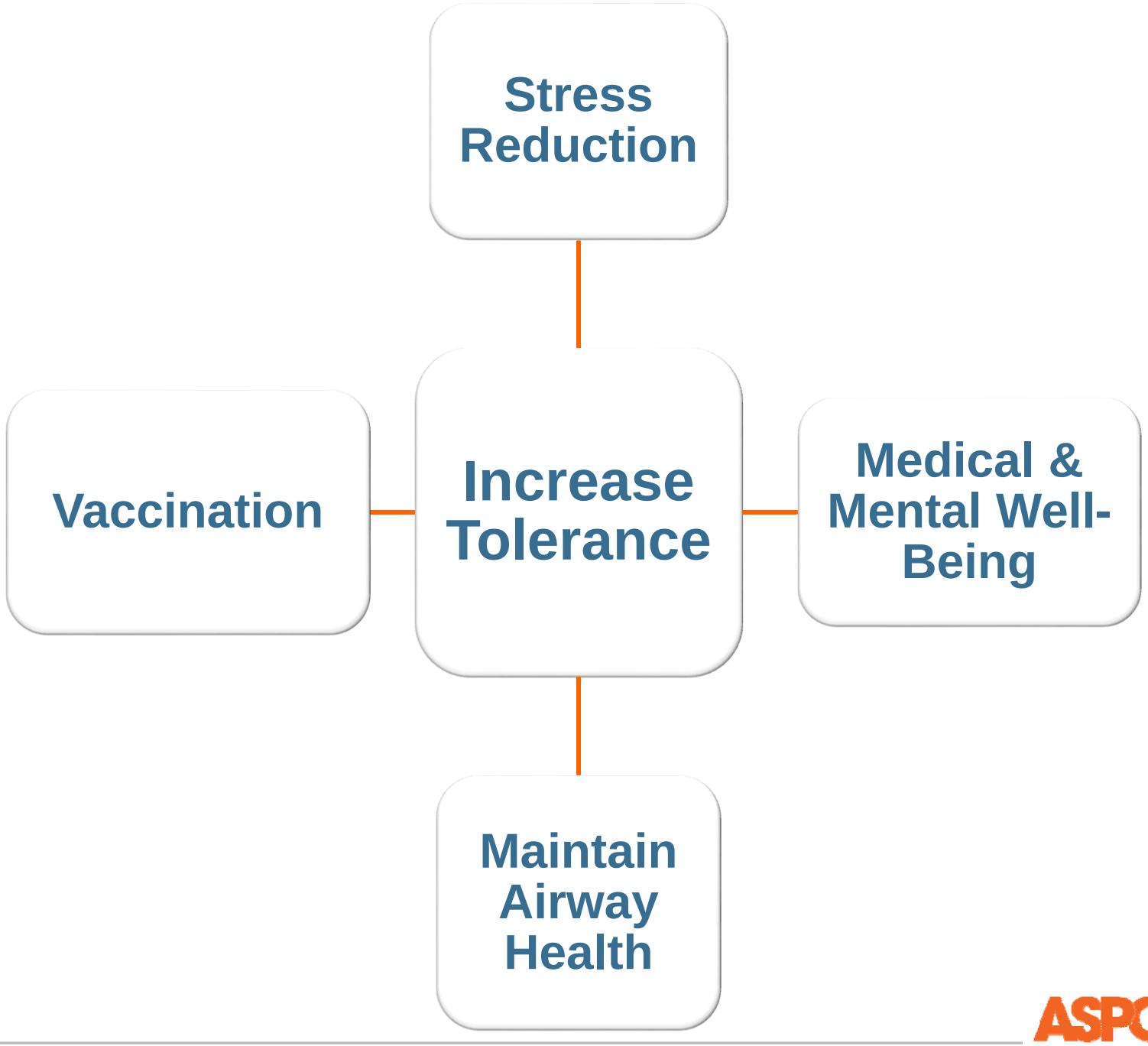
Oral/Ingestion

Airborne

Environmental

Photo: Koret SMP





2 Developing Sanitation Policies

Optimizing the sanitation process

- The Process
- The Places
- The Order
- Staffing & Training

Reviewing common disinfectants

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The Process

Photo: Koret SMP

1. Cleaning

- Manual removal of all visible organic matter with detergent

2. Disinfecting

- Chemical inactive of remaining microorganisms

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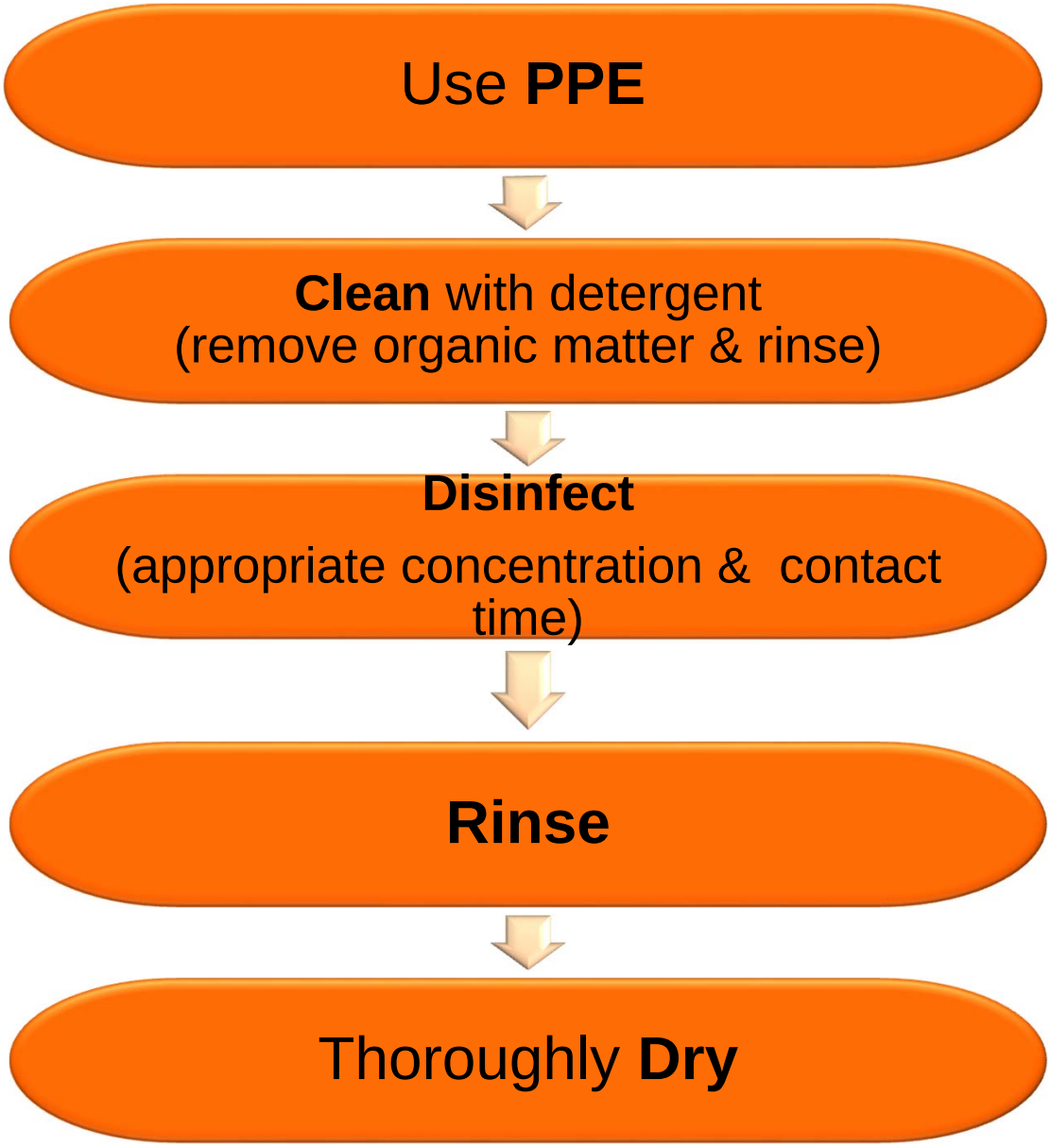
The Actual Process



The Places

Goal:
Focus on high-risk areas & animals

- Vehicles
- Carriers
- Intake
- Surgery
- Housing between occupants
- Restraint items

Shared spaces/ equipment

- Intake
- Clothing
- Hands
- Countertops

Heavy contact areas

- Intake
- Holding
- Juveniles
- Isolation
- Quarantine

High risk & vulnerable animals

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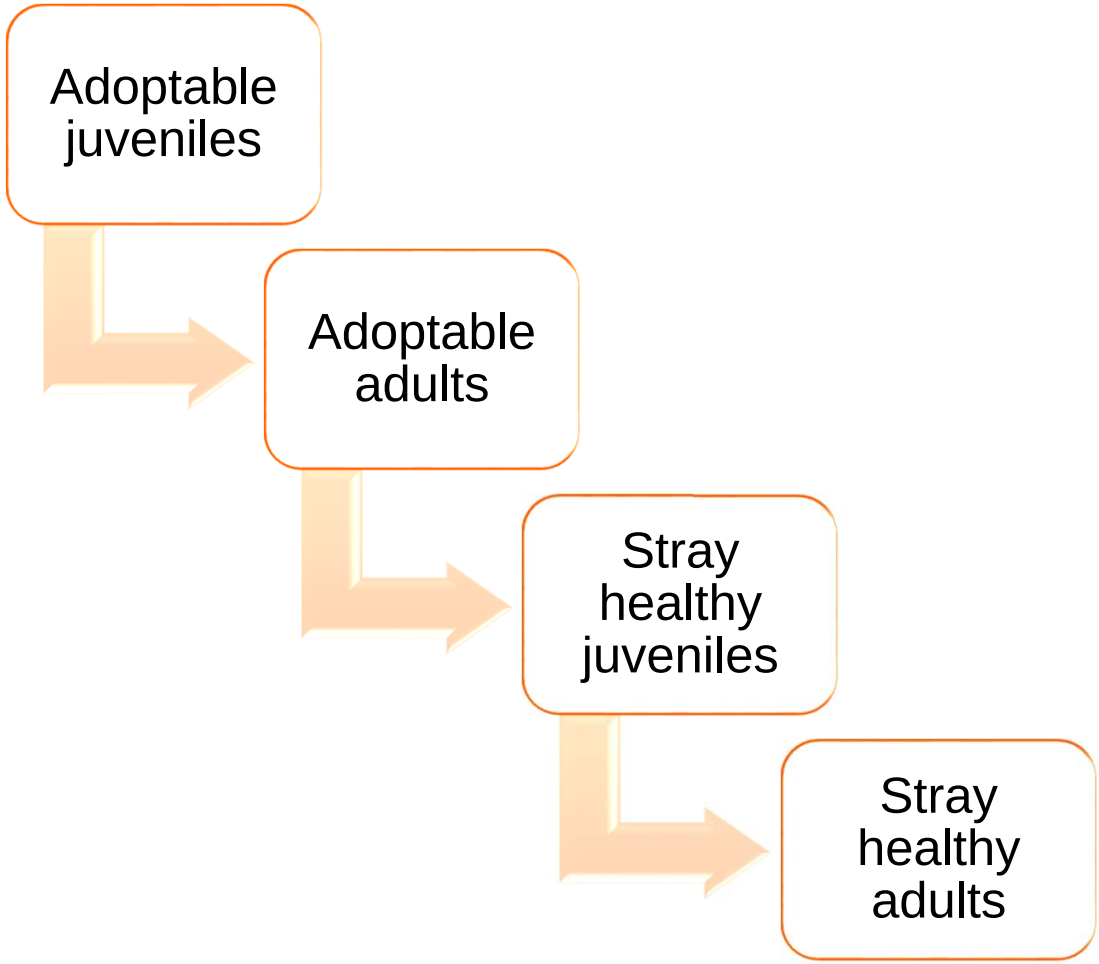
The Order



Goal:
Prevent potential disease transmission

Quarantine*

Isolation*

*Separate staff and/or equipment

Staffing, Training & Compliance

Goal:
Ensure staff can efficiently & safely implement sanitation practices

- Learn from past mistakes
- Increase availability of supplies & PPE
- Use double-sided housing
- Spot clean, when appropriate
- Maintain adequate staffing capacity

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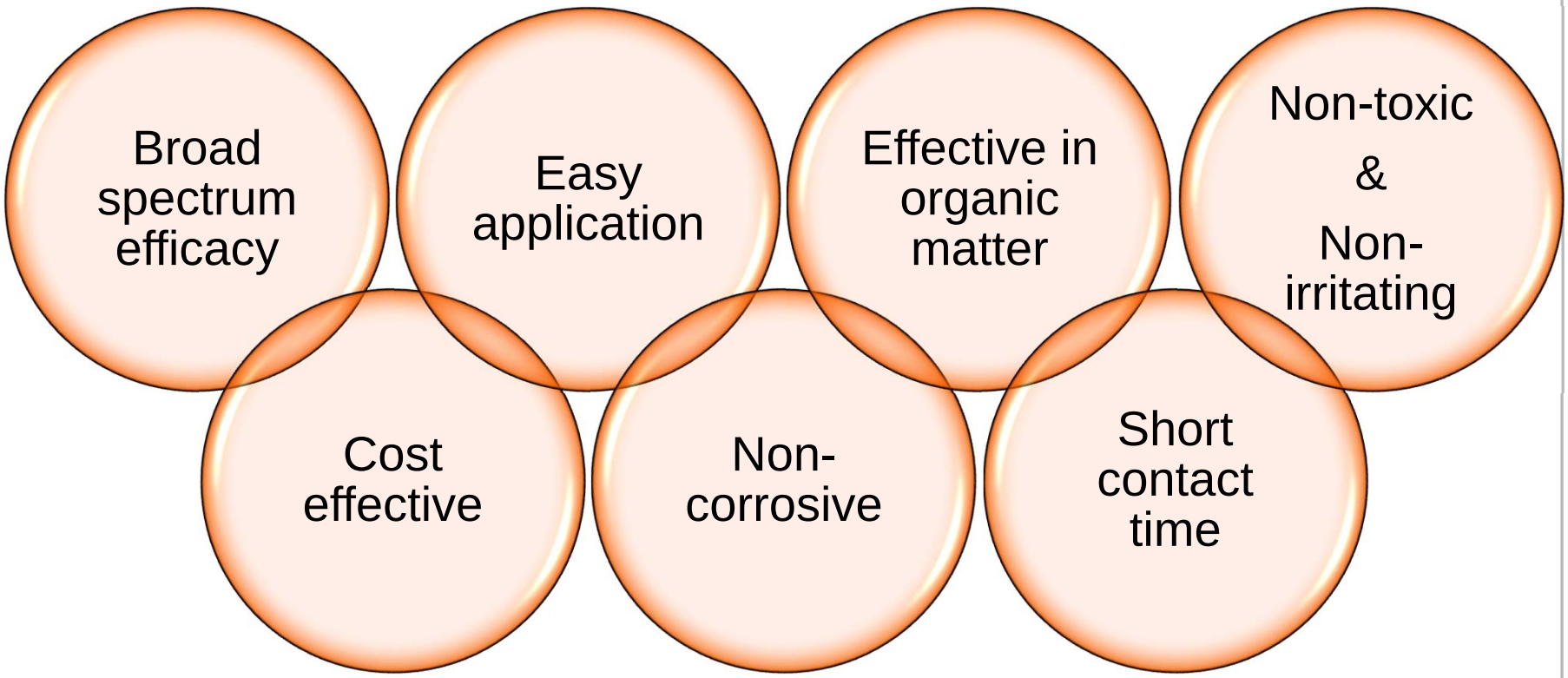
The Ideal Disinfectant



Sodium Hypochlorite - Bleach

POSITIVES	CAUTIONS
Cost	No detergent activity – requires 2 steps
Effective against non-enveloped viruses	Partially inactivated by organic matter & detergents/must be applied to clean surface
Stable for 30 days if stored properly but recommend to prepare 1x/week	Corrosive to metal
Effective against ringworm at 1:10 concentration*	Requires rinsing
	Respiratory irritant/caustic at high concentrations
	Inactivated if exposed to light/heat

* however this concentration is caustic and not recommended

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Calcium Hypochlorite

POSITIVES	CAUTIONS
Cost	No detergent activity – requires 2 steps
Effective against non-enveloped viruses	Inactivated by organic matter & detergent/must be applied to clean surface
Attaches to any hose end	Must use with special applicator
Less corrosive to metal than bleach	Not effective against ringworm
Less of respiratory irritant/less caustic than bleach	
No rinsing required	

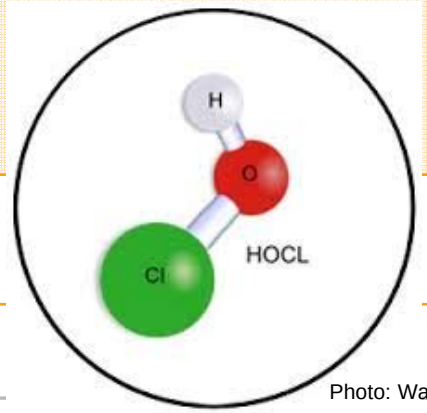

Photo: Wada water

Quaternary Ammonium Products

POSITIVES	CAUTIONS
Cost	Not reliably effective against non-enveloped viruses or ringworm
Easy to use	Can be toxic if incorrectly diluted
Stable in solution	Inactivated by organic matter & detergent/must be applied to clean surface
Some detergent activity	

Photos: Dr. DiGangi

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Potassium Peroxymonosulfate - Virkon & Trifectant

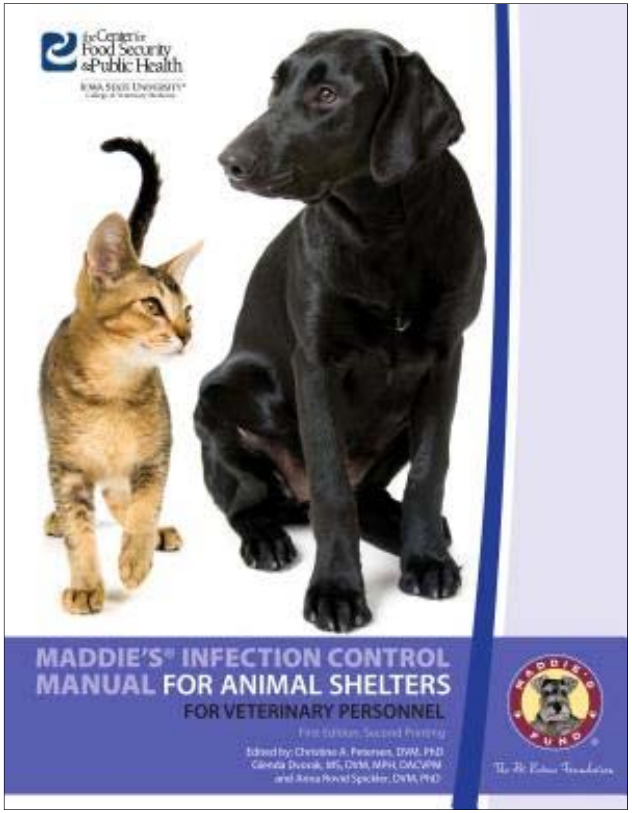
POSITIVES	CAUTIONS
Effective against non-enveloped viruses & ringworm*	Cost
Some detergent activity	Must use PPE with powder
Relatively effective in face of organic matter	Limited application - powder & tablet forms
Non-toxic	Stable for 7 days as solution
Non-corrosive as solution	

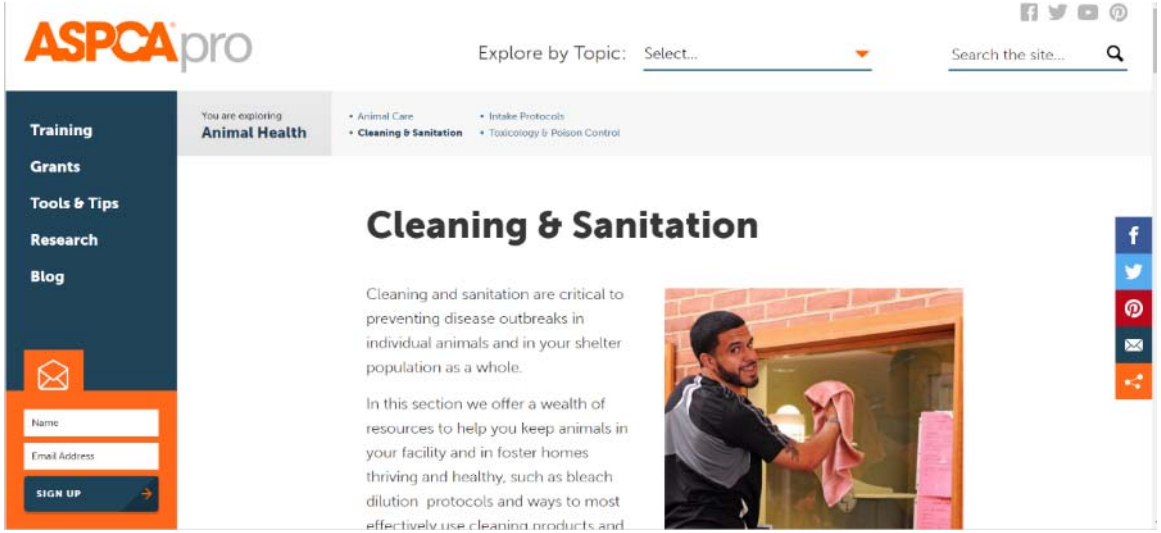
*variable efficacy against ringworm

Accelerated Hydrogen Peroxide - Rescue

POSITIVES	CAUTIONS
Effective against non-enveloped viruses	Costly if overused
Good detergent activity – one step product	Must use PPE with concentrate
Effective in face of organic matter	
Non-toxic	
Non-corrosive at appropriate concentration	
Easy to use & multiple application systems	
3 yr shelf life & stable for 90 days as dilution	
Short contact time (1,5, or 10 min) based on concentration	
No need to rinse unless washing dishes	
Effective against ringworm at 1:16 dilution	

http://www.cfsph.iastate.edu/Products/maddies-infection-control-manual-for-animal-shelters.php





http://www.aspcapro.org/animal-health/cleaning-sanitation

Wednesday, July 19:

Shelter Sanitation Best Practices: Part 2

Case Studies in Shelter Sanitation!