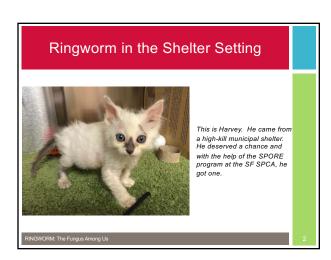
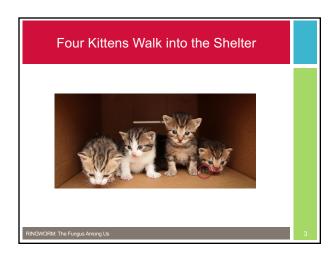
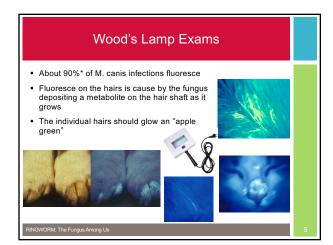
Fighting Fungus with Facts: SPORE Program and Finishing School Foster







First Steps • History – previous shelter, location, siblings... • Full physical examination- take your time • Check for hair loss and breaks in the hair. RINGWORM: The Fungus Among Us











Four Kittens Walk into the Shelter	
RINGWORM: The Fungus Among Us	10

Second Steps

- After the initial Wood's lamp examination, a plan needs to develop for the exposed kittens to determine their disease status.
- Systematically gathering samples for an in-house culture will help to determine how much, if any, ringworm infection is found on the kittens







RINGWORM: The Fungus Among Us

To Pluck or Not to Pluck...that is the question

By the time the lesion is noticed and visable, most of the affected hairs have fallen off, due to the nature of the infection.





Hair plucks can lead to false negatives and does not give a good representation of the skin infection.



:INGWORM: The Fungus Among U

Starting a Fungal Culture

- Use a plate culture, not slant ones
- Toothbrush sampling gives larger sample size for cytology
- Brush the cat 15 times from nose to tail (avoiding actual lesion) then brush the suspected lesion 5 times. If no apparent lesion, brush cat 20 times covering all areas
- Store upside-down in warm (80-85F) dark location



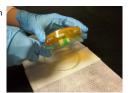


PINGWORM: The Eurous Among III

Inoculating a Fungal Culture

- •Always set up cultures in a clean area
- Hold culture plates with medium side up*
- •Gently stab the tips of the toothbrush into the media.
- •Cover the whole plate in a consistent pattern.
- Use Accel wipes as a drop cloth to prevent contamination of area







Pathogen Scoring of Culture Plates

Just because it grows – does not mean there is an infection

"P-score" or "Pathogen score" refers to the number of colony forming units (cfu) growing on the plate and is used in decision making for treatment and for monitoring the response to treatment.

- P-1: less than 4 colonies on the plate
- P-2: 5-9 colonies on the plate
- P-3: more than 10 colonies, too many to count colonies or a "swarmed plate"

This is why it is important to have a consistent standard way of plating each culture

INGWORM: The Fungus Among Us

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Pathogen Scoring of Culture Plates	
P1 P1 P1 P3	
RINGWORM: The Fungus Among Us	16

Interpreting the P-score

P-1 Score:

These cats should be examined again with the wood's lamp and if they do not have any lesions they should receive one final topical dip and then can be cleared from isolation. If a new lesion is seen upon the second exam, the animal remains in isolation and begins treatment

P-2 Score

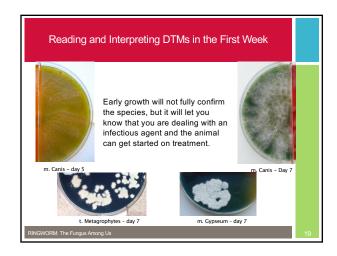
These cats also require a second examination with a wood's lamp. If no new lesions are seen then they are topically treated one more time and then released from isolation. If a lesion is seen upon the second exam, the animal remains in isolation and begins treatment.

P-3 Score:

Ensure proper isolation of animal and treatment has begun.

RINGWORM: The Fungus Among Us

Four Kittens – A Week Later • Where are the housed? • Any more testing needed? RINGWORM: The Fungus Among Us







Lime Sulfur: your friend in the fight against ringworm Kills spores on contact, environmental containment Use at an 8oz per gallon dilution. Yes, it's stinky... but smells like victory! RINGWORM: The Fungus Among Us

SFSPCA Ringworm Treatment Protocol Daily Itraconazole 5mg/kg for 21 days only. If under 6 months pulse one week on one week off If over 6 months 21 consecutive days Keep an eye on culture results, may need to pulse one more week for severe cases after 8 weeks Keep in isolation until 2 negative DTMs Twice weekly Lime-Sulfur dips while in isolation Weekly cultures to determine response to treatment Weekly 'deep' cleaning of isolation wards

The SPORE Program Shelters Preventing Outbreaks of Ringworm through Education Through the education of staff and volunteers, many ringworm outbreaks can be avoided and all can be controlled without the use of euthanasia. Many shelters do not have the funds and staff to treat ringworm at their own facility. The SFSPCA would like to help these shelters use their own resources and create a partnership with them so that we do not have to euthanize for this curable disease.







Treatment and Isolation in Foster What we ask of the foster home

- comfortable with medical treatment and isolation practices
- willing to receive training on how to manage ringworm in the home setting
- ability to communicate with foster team, continue bi-weekly dips and any oral medications in the foster home
- ability to keep all resident animals safely away from the isolated foster space
- willing to house the animal(s) for an extended period of time, up to 8 weeks





RINGWORM: The Fungus Among Us

Treatment and Isolation in Foster Culturing at home



Brush the cat 15 times from nose to tail (avoiding actual lesion) then brush the suspected lesion 5 times. If no apparent lesion, brush cat 20 times covering all areas



Gently stab the tips of the toothbrush into the media.
Cover the whole plate in a consistent pattern.





RINGWORM: The Fungus Among Us

Treatment and Isolation in Foster Bathing and cleaning at home



Dilute solution 1:20 with warm water

Apply to dry coat with sprayer
Use sponge on face and ears
Squeeze dry











WORM: The Fungus Among Us









Thank You!	SAN FRANCISCO SPCA	
A special thanks to: Sandra Newbury, DVM, Kate Hurley, DVM and especially Karen Moriello, DVM who proved to us that we can beat ringworm in the shelter environment, without the use of euthanasia and The SFSPCA for providing the care and housing needed to save these ringworm animals		