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Sandra Newbury, DVM

Koret Shelter Medicine Program
Center for Companion Animal Health
U C Davis School of Veterinary Medicine
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 $\underline{www.facebook/sheltermedicine.com}$

Adjunct Assistant Professor of Shelter Animal Medicine Department of Pathobiological Sciences University of Wisconsin-School of Veterinary Medicine



Beating Ringworm?

Yes You Can!



DCHS Graduates



Two Case Studies





SF SPCA San Francisco, CA



Dane County Humane Society Madison, WI



Is it worth it?

"Taking on ringworm with a **logical** screening, diagnostic and treatment program – rather than just fretting about it – is well worth the effort. Not only does it save a lot of lives through screening and treatment, it can be a great way to develop and give confidence to your medical and adoption staff. We respect ringworm and the damage it can do to an adoption program but we know how to handle it so, for us, it only enhances our life saving efforts. Thanks RW!"

-Dr. Jennifer Scarlett Co-President The San Francisco SPCA



Is it worth it?

"Dane County Humane Society is proud and grateful to participate in operating a high quality standards of care life-saving ringworm treatment program for cats along with the compassion and expertise given by UC Davis and UW Veterinary School of Medicine. This partnership has truly impacted our shelter operations and has been an inspiration to staff, volunteers, our community and donors. We look forward to continuing to grow the program in the future to help save even more cats."

-Pam McCloud Smith Director Dane County Humane Society



Program set up

Dane County Humane Society- Madison, WI

- ❖ First program of its kind in 2003
- Initiated by an amazing group of volunteers seeking change led by Sally Green
- Previous recognize and euthanize policy failed to control disease problems
- Designed by two veterinarians with diverse expertise
 - Dr. Sandra Newbury Shelter Medicine
 DCHS Director of Medical Services in 2003
 - Dr. Karen Moriello- Dermatology
 - ❖ Research focus on ringworm



Program set up

SF SPCA

- Staff Driven
- Followed model from DCHS / UC Davis
- Staff veterinarians
- Staff technicians



Program supervision

DCHS

- UC Davis KSMP / University of Wisconsin
- Staff Veterinarians
- Clinic Manager
- Programs Supervisor
- ❖ Ringworm program coordinator



Program supervision

SF SPCA

SPORE (Shelters Preventing Outbreaks of Ringworm through Education)

- **❖** Staff Veterinarians
- ❖Shelter Director DVM
- ❖ Foster Associate Ringworm program coordinator
- ❖Advice from UC Davis KSMP



Program staffing

DCHS - Primarily volunteer staffing

- Staff veterinarians
- Medical Services Supervisor
- Staff coordinator
 - ❖ 10 hours a week
- Incredible volunteers
 - Culture reading
 - Daily treatment
 - Cleaning and feeding
 - ❖ Topical treatment
- Treatment cultures UW





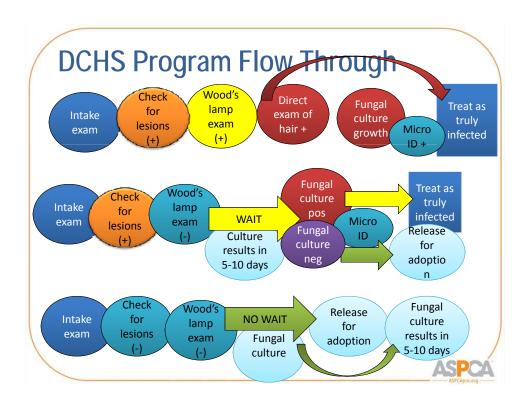
Program staffing

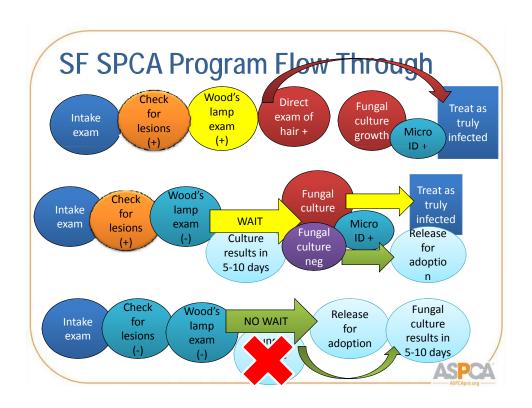
SF SPCA – Primarily paid staff

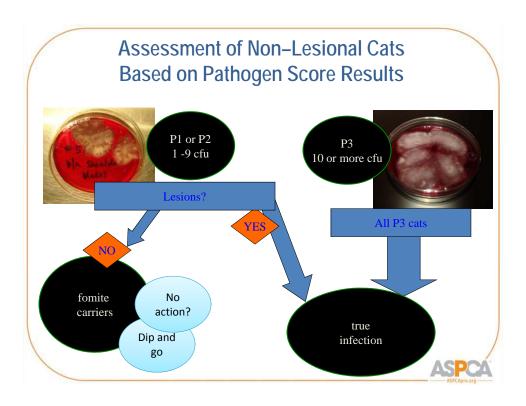
- ❖Staff Veterinarians
- ❖ Technician staff
 - Culture reading
 - Daily treatment
 - Cleaning and feeding
 - Topical treatment











Bonded pairs and littermates Non-Lesional – Culture negative

- Judgment call
 - Risk
 - Socialization
 - LOS
- Topical treatment and co-housing
- Dip and go
- Subdivide orphan litters by status





Intake – Set up and training

- ❖ Where's the outlet?
- ❖ Where's the switch?
- ❖ Where's the Wood's lamp?
- Where's the training?
- ❖ Where are the gloves?
- ❖ Where is the gown?
- ❖ Where's the towel?
- Where's the toothbrush?
- Where's the hemostat (hair plucker)?
- ❖ Where's the mineral oil?
- ❖ Where's the slide
- ❖ Where's the microscope?





Reception

- Intake culture
- Dip before entry
- No clipping necessary
 - Pesians or truly long haired cats exception
 - Control the spread of hair!
 - Cool clippers frequently!
- Last one in / last one cleaned
- 2-3 kittens per housing unit
- Singles need more love
 - Balance socialization with time to cure
 - Other infectious disease concerns
- Identify needs
- Identify other infectious disease concerns



WELCOME

Fungal Culture Management

- Warm room or incubator
 - ❖ 78-80 degrees F
- Cultures in bins by week
- Record keeping
 - Paper notebook
 - Excel sheet
 - Database
- Move bins on the same day each week
- Quick visual exam of each culture every day until finalized
- Micro Id for suspect cultures





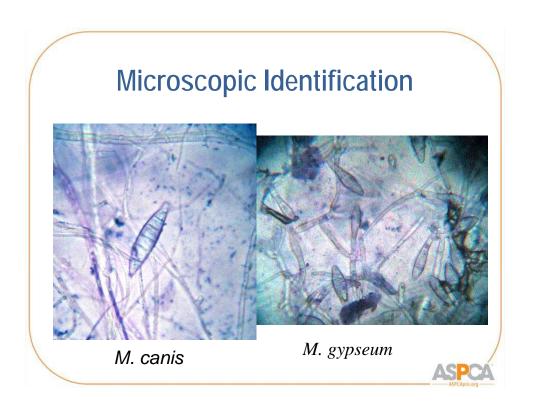
Fungal Culture Management

- ❖ No growth
- Suspect
- Contaminate
- Heavy contaminate
- Can't say positive without a microscope









Fungal Culture Lab Management

- Cleanliness***
- Paper towels on work counter under all fungal cultures
- Regularly clean work surfaces
- Cultures only open long enough to sample
- Dispose of cultures as biohazard
- Supplies organized
 - Microscope
 - Slides
 - Stain
 - Camera





DCHS isolation facility





- Two dedicated wards within treatment area
- Each ward has stainless steel
 - 9 general treatment
 - ❖ 6 ringworm + URI





DCHS isolation facility

- ❖ Still...
- Two dedicated wards within treatment area
- Each ward has stainless steel
 - 9 general treatment
 - 6 ringworm + URI





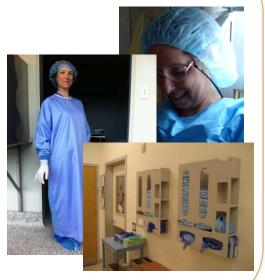
Treatment Housing – SF SPCA

- Three dedicated wards within treatment area
- Each ward has stainless steel
 - 3 single sided "dog run" type
 - 2 large cages
- Additional overflow / flexible wards



Protection for humans

- Disposable gowns
 - Washable gowns save on landfill
- Gloves
- Shoe covers
 - Dedicated easy to remove shoes
 - Crocs
 - Rubber boots
- Optional (but attractive) cap





Sanitation

- Current research on minimum daily disruption in a managed treatment center
- Dip prior to entry dramatically reduces environmental contamination



Special thanks to Eileen Ribbens of The Wisconsin Puppy Mill Project for the new DCHS cleaning carts



Sanitation

- Stress reduction
- Control kicking up dust
- High level of general room cleaning
 - Clear surfaces
 - Storage in closed bins
- Mechanical removal of spores is most important
- Frequent bedding changes
- Prevent cross contamination



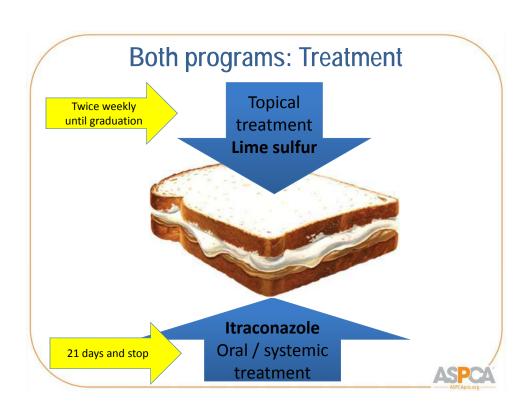


Laundry

- Bag as it is removed from the cage
- Laundered just after cleaning
- Don't overload the wash
- Use dryer at high heat
- Clean laundry stored in closed bins







What about pulse treatment with itraconazole?

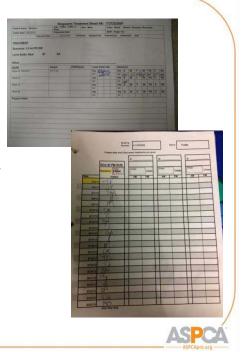
- Confusing (less simple) protocol
- More expensive
- Many cats have likely cured by 3 weeks although additional time is needed to finalize cultures
- Itraconazole has residual activity
- All our shelter studies have used 21 days only





Treatment sheets

- Standardized protocol
- Standardized forms
- Consistency helps staff



17

Topical Treatment Garden Sprayers

- Tuesdays and Fridays
- Sundays and Thursdays
- Half gallon sprayer is preferred.
- Easily lifted when full.
- Solution stays warm.
- Short stubby spray nozzle helps with control.
- Clean thoroughly after each use.
- Fill with hot water and allow to discharge completely to prevent clogging of nozzle and valve.



Portable "Dip" sink

- Cheap
- Portable
- No need to call a plumber.



The Dyp Show

- Use gentle but firm handling.
- Keep the spray close to the skin.
- Allow most cats to find a secure place to hold on.





The Dyp Show



- A small sponge or raglet should be used for the face and ears.
- The face and ears are the most difficult places to clear of infection.



Monitoring treatment

- Weekly treatment cultures
- Best to sample just before dipping
- Re-number cage cleaning each week

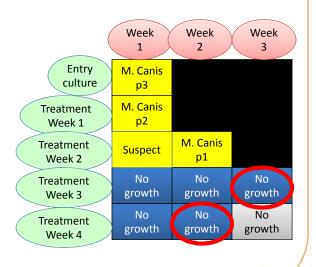


Ghoul	no growth	Υ	9/30/11	10/4/11	ng	ng	ng	0	0	0
	no growth	Υ	9/16/11	9/20/11	ng	ng	ng	0	0	0
	no growth	Υ	9/10/11	9/16/11	ng	ng	ng	0	0	0
	no growth	Υ	9/2/11	9/13/11	ng	ng	ng	0	0	0
	no growth	Υ	8/27/11	9/13/11	ng	ng	ng	0	0	m,s,a, no lesions
	no growth	Υ	8/19/11	8/26/11	ng	ng	ng	0	0	0
	negative	Υ	8/12/11	8/26/11	ng	С	С	0	0	0
	no growth	Υ	8/9/11	8/12/11	ng	ng	ng	0	0	0
	M canis	Υ	7/23/11	7/29/11		M canis	0	1	0	3 large colonies
	M canis	Υ	7/9/11	7/19/11	M canis	0	0	3	0	TMTC



Graduation – with this protocol only

- 2 negative cultures
- ❖ Taken 1 week apart
- Verified by micro ID if any growth is present



Challenges

- Resources
 - Time
 - Money
- Coordination / supervision
- Intake staff exams
 - Intake area set up
 - Supplies
 - Physical layout
 - Training
- Volunteer recruitment
- Seasonal capacity demands
- "Cage crazies" (rare)





The Pay Offs

- Saving lives
- Outbreak prevention
- Helping other shelters
- Public health
- Community trust
- Charting new territory
- ❖ Veterinary education





Resources / expenses

Dane County Humane Society

- Intake time and training
- Fungal cultures for every animal
- Medication costs
- Supervision costs
 - Volunteers**
 - Staff
- Minimal care / treatment staffing costs

San Francisco SPCA

- Intake time and training
- Fungal cultures for lesional animals
- Medication costs
- Supervision costs
 - Staff only
- Care / treatment staffing costs



Thanks!

Dane County Humane Society

- ALL the volunteers in the program
- ❖ Pam McCloud-Smith
- Drs. Smedberg and Kuehl
- ❖ Jennifer Pratt
- Beth Rodgers

San Francisco SPCA

- Laura Mullens
- Dr. Kazminski
- Dr. Scarlett



Thanks!

To Dr. Karen Moriello

- For caring about cat hair
- For willingly and enthusiastically following me to a shelter (10 years ago) and for everyday we work together to help shelter people save lives.



Moriello aka "Jello Queen" with Ken – our first customer



Thanks!

"We have had a terrible year with ringworm in our shelter and in the community. We have participated in both of the recent ringworm webinars and were inspired to rent a trailer so that we can start treating ringworm in our shelter"

Even better than a click and a treat!

To all of you for the work amazing that you do. Your enthusiasm is our reward!



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