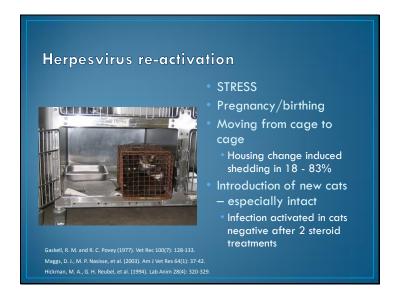


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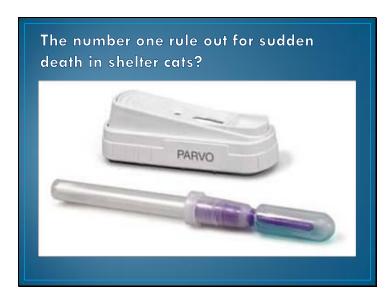
Calicivirus risk assessment

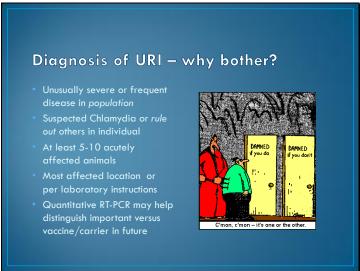
- Evaluate risk posed by *individual* based on disease manifestations in *group*:
 - Severity of worst disease
 - Health, age and vaccine status of affected individuals
 - Presence or absence of co-factors
 - Apparent ease of spread
- Risk likely reduces over time and with full resolution of signs
- Highest risk if healthy adults from clean environment are affected

FCV does not equal VS-FCV!!!

	# of cats	Calici	Herpes	Borde- tella	Myco- plasma	C. felis
Well	259	71 (27%)	42 (16%)	30 (12%)	15 (6%)	1 (. 4%)
URI	314	89 (28%)	92 (29%)	25 (8%)	65 (21%)	14 (4%)
Odds ratio		1.04 (.7-1.5)	2.15 (1.4-3.2)	.99 (.6-1.7)	4.26 (2.4-7.7)	12.02 (1.6-92)

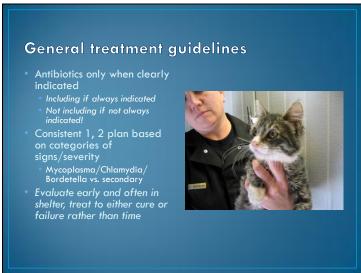
Bannasch, M. J. and J. E. Foley (2005). "Epidemiologic evaluation of multiple respiratory pathogens in cats in animal shelters." J Feline Med Surg 7(2): 109-119.

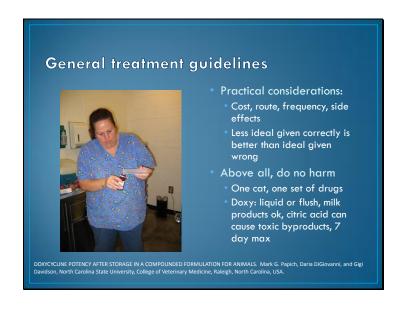




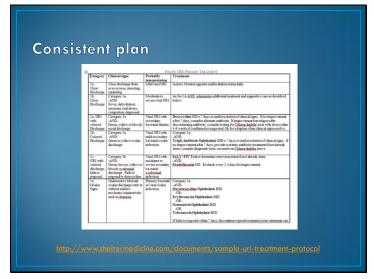














Don't forget supportive care as needed

- Delicious, stinky food
- Fluids
- Pain control
 - Especially if ulcers
- Humidification/nebulization
- Appetite stimulants
- Nose drops EONostril/EOD
 Try saline drops first
- Fever reducer
- Balance with stress





Room for recovery Private Seam: Not having a roommate slashes the risk of airborne infection: A seven-year study showed that nursing home resistant in private recovery were three times less likely to catch the flu. Single occupacy means better rest, too. Canadian researchers reported that ICU parlients bunking solo got 1:0 more towns of steep. Corpeting: Research also shows that victors (who provide valueble social support and physical assistance) tend to stay attach sight infrates larger on average when rooms are carpeted. A View of Historie: Research published in the journal Science compared posturgical patients who had a view of trees with those who had a view of a brick wall. The nature gazers needed fewer publiments, suffered fewer minor complications (such as fever, nausea, and constipation), and stayed an overrige of visit to a day of the tospital. Sound Absorbing Colling files: Swedish researchers who installed high-density fiberglass tiles in an ICU discovered that they lowered noise levels slightly. As a result, patients had more restful sleep, and a lovel rate of reloophalication. Light-filled Window: At a Pittsburgh hospital, post-op patients who recovered in sunny rooms took 22 percent less poin medication per hour than patients in dim rooms. Another study found that in cardiac ICUs, the death rate runs about 61 percent higher in facilities that tock natural light.

Treatment area guidelines

- Natural light, good air quality, big comfy cages, hiding spots or half-cage-covers, minimal noise
- No dogs allowed!

 Dedicated equipment, protective tops, gloves or hand wash before and after handling cat
- Forget about footbaths

 Shoe covers if something truly awful going on

 Play/lap sitting area ok
 Ideally off to the side

 Do not use for suspect calici
 Shut down if unusually severe disease



Chronic or nonresponsive "URI"

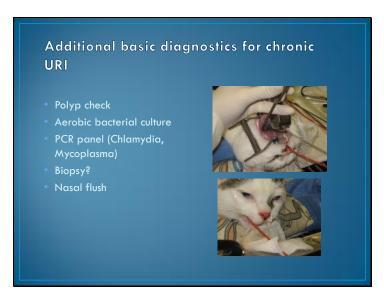
- - Flow through issue from isolation to adoption?
- - Chlamydia, polyp, fungal, deep bacterial plus structural
 - Lymphoplasmacytic rhinitis, neoplasia, dental issues, foreign



Chronic or nonresponsive URI



- Initiate after two rounds of appropriate (different)
 - Chlamy dophila
 - Gram negative
- Careful physical exam
 - Nasal versus ocular versus both
 - Unilateral versus bilateral
- Retrovirus testing







 		-

What causes feline URI?



- Ineffective vaccination?
- Improper disinfection?
- Poor nutrition?
- Lousy air quality?
- No place to hide?

Vaccination basics



- Mitigates severity but does not prevent infection; takes time to protect
- intection; takes time to protect

 SC MLV FVRCP for all > 4-6 weeks on entry +

 2-3 week booster

 2 weeks before entry if possible

 Revaccinate kittens SC every 2 weeks while in
 high risk environment, every 3-4 when not

- 2 way calici vaccine for adult long stay shelter
- Revaccinate high risk adults annually especially after hiatus from exposure

Disinfection basics

- Blech and its lik, potassium peroxymonosulfate, accelerated hydrogen peroxide

 NOT: quats, chlorhexidine

 Stress, formite transmission and respiratory irritation can cause more harm than good
- Spot clean during residence, focus cleaning on high contact surfaces
- Tops stay with populations, cleaned after sick cat contact and before well cat contact
- Sometimes compromise on sterility is worth a decrease in stress
 - E.g. spacious, warm, comfy housing versus stainless steel New intake versus long term, kittens versus adults





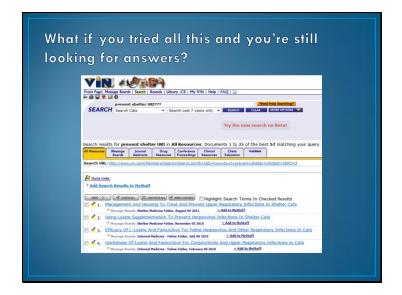
Nutrition basics Offer palatable, highly absorbable, consistent diet Have variety on hand for picky eaters Separate food and litter by at least three feet Dim lights and/or cover cage Avoid pairing feeding with aversive activities Smells, sounds, disruption e.g. www.crijopets.com



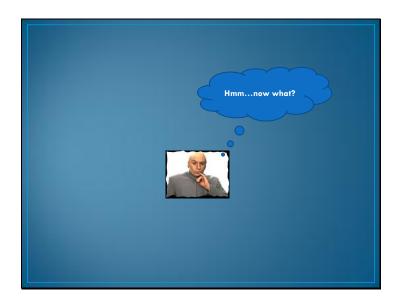
Lysine references for the curious amongst you Drazenovich, TL, Fascetti AJ, Westermeyer HD, Sykes JE, Bannasch MJ, Kass, PH, Hurley, KF, Maggs, DL. "Effects of dietary lysine supplementation on upper respiratory disease and infectious organism shedding in cats within an animal shelter." American Journal of Veterinary Research, Submitted 10/12/08. Manuscript ID AJVR-08-10-0330 Rees, T. M. and J. L. Lubinski (2008). "Oral supplementation with I-lysine did not prevent upper respiratory infection in a shelter population of cats." J Feline Med Surg. Maggs, D. J., J. E. Sykes, et al. (2006). "Effects of dietary lysine supplementation in cats with enzootic upper respiratory disease." J Feline Med Surg.

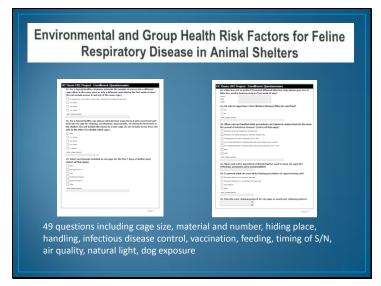


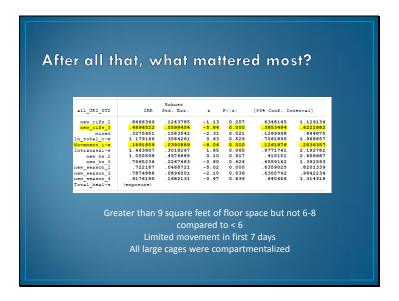


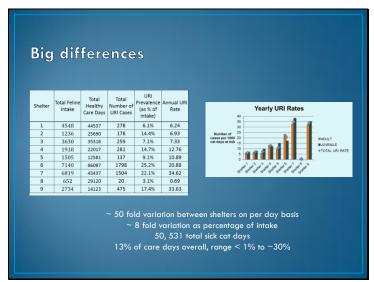


VIN, Shelter Medicine Folder, 8/2011 I work at a non-profit, open admissions shelter... In the past, the summer months have brought us rampant URI in cats, and our live release rates have been less than ideal (2010 was 54% for the month of July). We have an amazing new building that opened in 2009, and has 126 Shorline cages for cat holding (in addition to the adoption floor, which has two "kitty cities" for group housing and 16 cat "condos" that are basically tiny rooms instead of cages). In 2010 we adjusted the temperatures in the cat lofts higher so the kitties wouldn't be as cold, we added hiding boxes and Kuranda beds, but we didn't see any changes in the URI rates. Cats were being euthanized daily because the URI was so widespread, and the severity of the illnesses were much greater than you see in private practice URI. Cats would go to foster for URI and be there for MONTHS with sneezing or conjunctivitis.





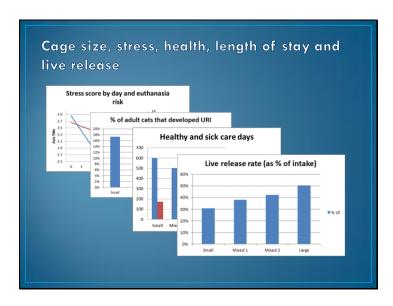






Does this really work?

In February 2011, we took a huge step and cut holes in between cat holding cages, and inserted PVC portholes, effectively doubling the space available to each cat and cutting the number of cages we had in half. Actually less than half - because each loft had an odd number of cages, there is a set of triple cages in each loft. We've now got 60 separate cat holding cages. These portholes were designed to be permanent openings, we did not make any "doors" to close because then it's too tempting to revert to less space and more cats. We had many staff and volunteers who were very leery of the change, fearing that more cats would be euthanized because we lacked space.



Magic

* We saw some effects right away. The lofts were immediately quieter, cats seeming more relaxed. There were very few cats "fake sleeping". The longer term effects are just starting to show up. Cat isolation is empty today, because our URI rates have plummeted. Cats aren't breaking with URI right before or after adoption. And now that the statistics for July are in, we found that our live release rate for felines in July 2011 was 70%. In 2010 it was 54%. We euthanized 140 fewer felines in July 2011 compared to July 2010 - and those numbers include the cats we euthanize on intake for lack of space.



Still not perfect • We still have to remind ourselves occasionally that we don't have enough homes to save every cat we otherwise could right now. But making the euthanasia decision earlier on is saving a lot of staff time and stress, and in the long run we've got healthier cats to adopt. Healthier cats will make a difference in the reputation we have, and pave the road to even higher adoption numbers.







Research on "Environmental Risk Factors for Feline URI" and "Comparison of Two Cage Types: Effect on Shelter Cat Stress, Upper Respiratory Disease and Adoption" was funded by Morris Animal Foundation— the world's largest nonprofit that supports animal health studies to protect, treat and cure animals.

Morris Animal Foundation funds research at veterinary colleges around the world. Its funding facilitates medical breakthroughs that help animals enjoy longer, healthier lives and trains the next generation of veterinary scientists.







Additional Notes: