

UPDATES ON FELINE INFECTIOUS PERITONITIS: TWO PUBLICATIONS (May 2014)

Pedersen NC. **An update on feline infectious peritonitis: Diagnostics and therapeutics.**

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Author information:

Center for Companion Animal Health, School of Veterinary Medicine

University of California, One Shields Avenue, Davis, CA 95616, USA.

Electronic address: [ncpedersen@ucdavis.edu](mailto:ncpedersen@ucdavis.edu).

ABSTRACT:

This review is concerned with what has been learned about feline infectious peritonitis (FIP) diagnostics and therapeutics since the publication of an extensive overview of literature covering the period 1963-2009. Although progress has been made in both areas, obtaining a definitive diagnosis of FIP remains a problem for those veterinarians and/or cat owners who require absolute certainty. This review will cover both indirect and direct diagnostic tests for the disease and will emphasize their limitations, as well as their specificity and sensitivity. There is still no effective treatment for FIP, although there are both claims that such therapies exist and glimmers of hope coming from new therapies that are under research. FIP has also been identified in wild felids and FIP-like disease is now a growing problem among pet ferrets.

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Pedersen NC. **An update on feline infectious peritonitis: virology and immunopathogenesis.**

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Center for Companion Animal Health, School of Veterinary Medicine

University of California, One Shields Avenue, Davis, CA 95616, USA.

Electronic address: [ncpedersen@yahoo.com](mailto:ncpedersen@yahoo.com).

ABSTRACT:

Feline infectious peritonitis (FIP) continues to be one of the most researched infectious diseases of cats. The relatively high mortality of FIP, especially for younger cats from catteries and shelters, should be reason enough to stimulate such intense interest. However, it is the complexity of the disease and the grudging manner in which it yields its secrets that most fascinate researchers. Feline leukemia virus infection was conquered in less than two decades and the mysteries of feline immunodeficiency virus were largely unraveled in several years. After a half century, FIP remains one of the last important infections of cats for which we have no single diagnostic test, no vaccine and no definitive explanations for how virus and host interact to cause disease. How can a ubiquitous and largely non-pathogenic

enteric coronavirus transform into a highly lethal pathogen? What are the interactions between host and virus that determine both disease form (wet or dry) and outcome (death or resistance)? Why is it so difficult, and perhaps impossible, to develop a vaccine for FIP? What role do genetics play in disease susceptibility? This review will explore research conducted over the last 5 years that attempts to answer these and other questions. Although much has been learned about FIP in the last 5 years, the ultimate answers remain for yet more studies.

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