Background
The purpose of this study is to evaluate the utility of a new technique called quantitative PCR (qPCR), which measures the number of viruses and bacteria in the nose, to identify a role for these organisms in cats diagnosed with feline upper respiratory tract disease. We also aim to evaluate the efficacy of famclovir in combination with standard therapy with an antibiotic for treatment of upper respiratory tract disease.

Participation Requirements
- Kittens with acute upper respiratory tract disease that:
  - Are displaying signs of sneezing, ocular or nasal discharge for less than 3 weeks; and,
  - Have not received prior treatment.

Procedures
- Prior to treatment – Completion of a survey about your cat’s clinical signs, sample collection from the eyes and mouth using a Q-tip
- Treatment – Oral administration of an antibiotic (doxycycline) alone or in combination with an antiviral drug (famciclovir) for 3 weeks. During this time, you will be asked to score the severity of your cat’s clinical signs daily.
- 3 weeks post treatment – Completion of a survey about your cat’s clinical signs, sample collection from the eyes and mouth using a Q-tip

Owner Responsibilities
- Bringing your cat to all scheduled appointments at UC Davis
- Completing the surveys
- Administering medication twice daily during the 3 weeks of treatment

Benefits
- The study will cover costs associated with the quantitative PCR, medications, and visit costs to obtain samples.
- Results from this study may help to identify the most appropriate diagnostic tests to use in this disease process and optimal treatment of affected cats.