

[New flu may not spread like regular flu \(2/7/2552\)](#)

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By [Maggie Fox](#), [Health and Science Editor](#)

WASHINGTON (Reuters) - The new [H1N1](#) influenza strain may be just a little less catching than seasonal flu, but seems a little better able to cause stomach upsets, researchers reported on Thursday.

Genetic analysis and lab experiments with the virus show it lacks a piece of genetic material that makes ordinary flu viruses so transmissible, a team of U.S. researchers found.

Researchers in the Netherlands, meanwhile, found it lives very well in the nose and their findings suggest it has the ability to stay around for a long time -- and get worse.

Both studies, published in the journal *Science*, show that [H1N1 swine flu](#) needs to be closely watched, said Dr. Terrence Tumpey of the U.S. Centers for Disease Control and Prevention.

"I think the take-home message is that we really need to keep a close eye on this virus," Tumpey said in a telephone interview.

Last month the World Health Organization declared a pandemic of the new [swine flu](#). It has been confirmed in more than 77,000 people globally and has killed at least 332 people, but U.S. officials have said there are likely a million or more cases in the United States alone.

Although flu season usually ends in April in the Northern Hemisphere, the new virus is still causing widespread illness and it is actively in the mix of seasonal flu viruses now circulating during the Southern Hemisphere's winter.

Tumpey and colleagues tested samples of the new virus from a California child who recovered from a mild bout with the new flu, a Texas child who died and a Mexican woman who had severe disease.

They compared it to ordinary, seasonal [H1N1](#) flu, testing it in ferrets, which develop flu in ways similar to humans.

The ferrets did not catch the new [swine flu](#) from one another as easily as they catch ordinary viruses, Tumpey said. Usually, if a ferret is infected with human flu, it infects all other ferrets in nearby cages. But with the new [H1N1](#), only six out of nine animals became infected.

HOUSEHOLD SPREAD

Usually 20 percent to 30 percent of household members are infected by a single flu patient but [H1N1 swine flu](#) may have a lower transmission rate, Tumpey said.

In addition, all previous pandemic flu strains -- from 1918, 1957 and 1968 -- have had a specific genetic sequence in a gene called PB2. The new [H1N1](#) does not have this particular mutation, Tumpey said.

He said health officials should keep an eye out for it, as the change may signal the virus is gaining the ability to spread more quickly and easily than it already does. Researchers are also watching for signs the virus has developed mutations that allow it to resist antiviral drugs -- and have found two instances so far, one in Japan and one in Denmark.

In addition, Tumpey's team found mutations that let the new [H1N1](#) virus live in the small intestine -- something seasonal influenza cannot do. This may explain why so many [swine flu](#) patients have stomach upsets such as nausea and diarrhea, the researchers said.

In the other report, Ron Fouchier and colleagues at Erasmus Medical Center in Rotterdam found the virus lived well in ferrets and spread very easily from one to another.

In fact, ferrets shed more virus with new [H1N1](#) than with seasonal flu -- meaning more of it came out of their noses, Fouchier's team found.

Ferrets inoculated with the new [swine flu](#) virus were a little sicker and took a little longer to recover than ferrets infected with seasonal [H1N1](#).

"These data suggest that the 2009A ([H1N1](#)) influenza virus has the ability to persist in the human population, potentially with more severe clinical consequences," they wrote.

(Editing by Mohammad Zargham)

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