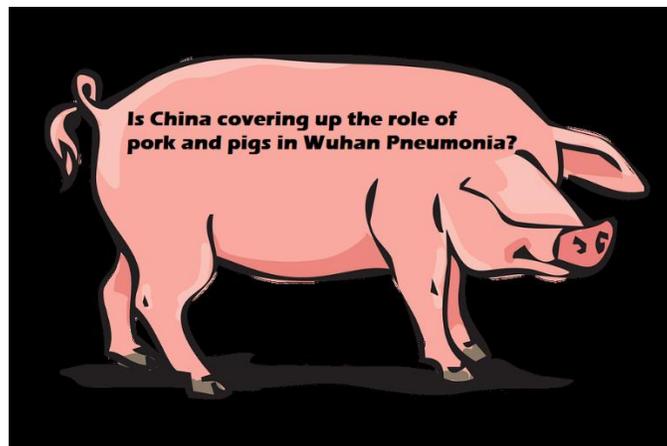


# Pork, Pigs, and the Wuhan Coronavirus



There is a possibility that the Wuhan epidemic is coming from pigs. This research increases the probability that the Wuhan Coronavirus came from pork and China must consider the possibility that pigs are still transmitting it to people.

Return of the Coronavirus: 2019-nCoV [The Wuhan Coronavirus]

by Lisa E. Gralinski and Vineet D. Menachery

<https://www.mdpi.com/1999-4915/12/2/135/htm>

"In addition, another rapid report links demonstrates 2019-nCoV uses ACE2 receptors from human, bat, civets, and **swine**."

"At this point, the infectious capability of the 2019-nCoV for different species and different cell types is unknown. Early reports suggest that the virus can utilize human, bat, **swine**, and civet ACE2."

Source:

Shi, Z.-L.; Zhou, P.; Yang, X.-L.; Wang, X.-G.; Hu, B.; Zhang, L.; Zhang, W.; Si, H.-R.; Zhu, Y.; Li, B.; et al. Discovery of a novel coronavirus associated with the recent pneumonia outbreak in humans and its potential bat origin. *bioRxiv* **2020**

**One man who sold pork at the Wuhan market is a victim of Wuhan Pneumonia as is a man who reportedly went to the Wuhan market to buy "meat." If pigs are spreading the coronavirus, China and the rest of the world may have to change their approach to controlling the epidemic.**

<https://flutrackers.com/forum/forum/china-other-health-threats/china-emerging-diseases-other-health-threats/821830-china-59-undiagnosed-viral-pneumonia-cases-in-wuhan-hubei-province-december-30-2019-influenza-sars-mers-ruled-out/page6>

# Husband, wife in the Eastern market **selling pork** for more than thirty years

At Wuhan Jinyintan Hospital, Mr. Huang told China Business Daily that her husband is 52 years old. Both husband and wife are working in the South China Seafood Wholesale Market and **selling pork non-staple food products** in the Eastern District.

"We have been in the meat wholesale business for a lifetime, and it has been more than 30 years. In recent years, we have been in the South China Seafood Wholesale Market." Said Mr. Huang.

The market was closed and her husband was hospitalized, but Mr. Huang did not stop working. She could only go to the hospital to learn about her husband's illness, deliver meals or daily supplies. "After the market was closed and some markets were closed, some of the goods from the business owners inside could not get out. I got up at 12 o'clock in the evening to pick up the goods outside and then send them to the hotel." Mr. Huang told reporters that many merchants in the market Many customers have accumulated over the years.

During the exchange, the reporter saw that Mr. Huang's hand was rough, and his fingers were frozen very red and swollen. "My husband was transferred from another hospital to Jinyintan Hospital on December 31, 2019. The fever was

**not very serious before, more than 38 degrees, but the symptoms have not improved. After transferring to Jinyintan Hospital, he still has a fever. Mrs. Huang said. According to Mr. Huang, her husband started to have symptoms of a cold and fever around December 25, 2019, and it has been more than a week now. At that time, I went to the Wuhan Central Hospital nearest to the South China Seafood Wholesale Market. I went to see that there was no hospitalization. Medical staff heard that the merchants in the seafood market suggested that we go directly to Jinyintan Hospital.**

"When my husband first came, he lived on the 6th floor. When I heard that he was a merchant in the South China Seafood Wholesale Market, he moved to the fourth floor." Mr. Huang told reporters that most of the merchant patients in the South China Seafood Wholesale Market live in the fourth floor floor. After three days, the hospital paid 6,000 yuan in advance for hospitalization.

**According to its introduction, patients in the South China Seafood Wholesale Market are mainly from the Western District, and less from the Eastern District. The Western District mainly sells seafood, chicken, duck and poultry frozen products, while the Eastern District sells more pork.**

"The goods in the market are the same in all parts of the country, and they are common in all parts of the country."

Mrs. Huang said, ***"We are not sure whether the illness is related to the goods."***

"I had a cold two or three days after my husband had a fever, and it took me two days to get an injection." Aunt Huang said. According to the reporter's understanding, the South

China Seafood Wholesale Market environment has not been very good. Although it is also disinfected from time to time, the ventilation is poor. Most of the products sold are frozen products. After freezing, the environment is very humid. Mr. Huang told reporters that a fire broke out in the western part of the market more than two months ago. A shop selling dry goods caught fire. It started to burn at 2:30 in the morning and burned to more than 7 o'clock before the fire was put out. "It was dried spices such as hot peppers. It was very smokey at the time, and it was particularly sultry. The 11th and 12th streets in the West District were completely burned.

## **Pig virus, porcine deltacoronavirus, shows cross-species transmission**

*The first animal study of a pig virus' potential to jump to another species shows that the virus, once introduced to a select group of birds, is easily transmitted to healthy chickens and turkeys.*

*The researchers who led this work were part of a team that previously found in a lab setting that the virus could infect cells from multiple species, including chickens and humans.*

Source:

<http://outbreaknewstoday.com/research-pig-virus-porcine-deltacoronavirus-shows-cross-species-transmission-to-poultry-91992/>

## ***Important information about pork and pigs in China***

### ***There are 14 pig breeding firms in Wuhan***

<https://www.globalmeatnews.com/Article/2018/07/05/Wuhan-pig-farms-to-organise-China-s-pork-industry>

## ***Pigs and Coronaviruses***

### ***Porcine Respiratory Coronavirus***

<https://thepigsite.com/disease-guide/porcine-respiratory-coronavirus-prcv>

# **Transmissible Coronavirus Gastroenteritis in Pigs**

Transmissible gastroenteritis (TGE) is a common viral disease of the small intestine that causes vomiting and profuse diarrhea in pigs of all ages.

## **Etiology and Pathogenesis:**

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The causal **coronavirus** infects and destroys villous epithelial cells of the jejunum and ileum, which results in severe villous atrophy, malabsorption, osmotic diarrhea, and dehydration. The incubation period is ~18 hr. The infection spreads rapidly by aerosol or contact exposure. Severe epidemics are more common during winter because of survival of the virus in colder temperatures.

<https://www.merckvetmanual.com/digestive-system/intestinal-diseases-in-pigs/transmissible-gastroenteritis-in-pigs>