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## **Culling may** cause more harm than good: Study



Instead of mass culling, which would unfairly tax healthy animal populations, researchers suggest exploring other options, like medication, good surveillance and open communication to manage zoonotic diseases. ST PHOTO: ARIFFIN JAMAR

NEED TO LOOK AT BIGGER PICTURE

Current policies to manage diseases that can be transmitted from animals to humans have prioritised human health. But measures such as culling do not account for other factors that contribute to the emergence and threat of emerging infectious diseases.

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**Practice disrupts** ecosystem, can lead to new infections, **NUS scientists say** 

Audrey Tan

Mass culling of animals to prevent the spread of disease is a common practice around the world.

But its effectiveness is debata-

ble, says a group of researchers here.
Disease could spread as animals

move away from the areas where culling is taking place, say the scientists from the National University of Singapore (NUS), citing scientific studies that demonstrate this.

Instead, public health policies should take into account the health of both human and animal

health of both human and animal populations, through means like vaccinating the animals instead of

vaccinating the animals instead of culling them, for example.

The recent backlash against the Agri-Food and Veterinary Authority's (AVA) move to cull free-ranging chickens here over bird flu concerns has also shown that culling incites an emotional

response.
The scientists from NUS pointed out that healthy animals should not be culled as a way of managing zoonotic diseases, or diseases that can be transmitted between hu-mans and animals. This strategy does not consider the impact cull-ing has on ecosystems already

threatened by urbanisation.
"Current policies to manage diseases that can be transmitted from animals to humans have prioritised human health," said Assistant Professor Tamra Lysaght, the study's lead from the NUS Centre

for Biomedical Ethics yesterday.

"But measures such as culling healthy animals do not account for other factors that contribute to the emergence and threat of emerging infectious diseases."

As ecosystems lose biodiversity, she explained, the number of natu-ral animal hosts for diseases is reduced. This can lead to the patho-gens looking for other hosts, re-sulting in the emergence of new zoonotic infectious diseases or

more dangerous viruses.

She was speaking about her team's new research paper, which looks at how global public health policies needed to be more aware of both human and animal health.

Published in January in scientific journal Plos One, the paper analysed the responses of 32 panellists from AVA, veterinarians, academics and wildlife conservation-ists on Singapore's approach to managing zoonotic diseases.

Participants found culling con-troversial and "extremely difficult to implement effectively within an urbanised area", the study noted. Alternatives, such as the use of animal vaccines, were discussed, but participants said these can be difficult to administer, depending on the animal, the type of virus

and drug availability.

No uniform policy option to deal with emerging infectious diseases was given, and this illustrates the need to explore other approaches such as medication, good surveillance and open communication to tackle the issue, said the scientists. One of the study's authors, NUS

infectious diseases expert Paul Tambyah, said that developing surveillance networks will quickly alert the authorities to infections and prevent the spread of diseases, reducing the need for mass culling.

"In Hong Kong, for example, there is a reward system in place for farmers who alert the authorities to cases of bird flu. That has helped Hong Kong keep the virus under control," he said. Developing a comprehensive eco-

logical approach to healthcare would result in a win-win approach to dealing with zoonotic diseases which will not unfairly tax healthy animal populations, he added.