MICHIGAN STATE UNIVERSITY

Consent and Definitions

Consent.

This is a research study of how COVID-19 has affected wildlife consumption (the use of wildlife products for food and/or medicine). This research involves questions about the health and policy implications of wildlife consumption. You must be at least 18 years old to participate in this research.

Participation in this research is voluntary. You have the right to not participate in this study. You may choose not to answer specific questions. Your answers are anonymous. The researcher has no access to identifying information such as your name or address.

There is no cost to completing this survey. You will be compensated the amount you agreed upon before you entered into the survey.

If you have concerns or questions about this survey, please contact the researcher:

Dr. Jessica Bell Rizzolo

Department of Fisheries and Wildlife

Michigan State University

jessica.b.rizzolo@gmail.com

480 Wilson Road

East Lansing, MI 48824

517-355-4478

By clicking on the button below, you indicate your voluntary agreement to participate in this online survey.

Definitions. For the purpose of this survey, we define "wild animals" as traditionally non-domesticated animals that are either farmed or caught from the wild. This includes all animals that are not chickens, cows, pigs, goats, or sheep. For example, frogs, snakes, bamboo rats, and crabs are considered wild animals, regardless of whether they are farmed or caught from the wild.

We define "consumption" in terms of general use for either food or medicine.

Demographics

Q1. Do you currently live in a rural or urban area in China?

○ Rural
○ Urban
○ I do not live in China

Q2. What region of China do you live in?

[   ]

Q3. What is your age?

○ Under 20
○ 20 to 29
○ 30 to 39
○ 40 to 49
○ 50 to 59
○ 60 to 69
○ 70 to 79
○ Over 80

Q4. What is your gender?

○ Male

○ Female

Q5. What is your monthly personal income?

○ Under RMB ¥ 1,000

○ RMB ¥ 1,000 to 5,000

○ RMB ¥ 5,000 to 10,000

○ RMB ¥ 10,000 to 20,000

○ Over RMB ¥ 20,000

Q6. What is the highest level of education that you have received?

○ Middle school or below

○ High school

○ College

○ Graduate degree

Q7. What sector do you work in?

○ Government

○ Technology

○ Healthcare

○ Food services (markets, restaurants, etc.)

○ Education and research

○ Agriculture, forestry, animal husbandry, and fisheries

○ Construction and transportation

○ [   ] Other

Origins of Zoonotic Disease

Q8. Where do you think COVID-19 most likely first originated?

○ China

○ Europe

○ US

○ South Asian subcontinent

○ [   ] Other (please specify)

○ I don't know

Q9. Which of the following sources do you think COVID-19 most likely originated from?

☐ Wild animals in a wet market

☐ Wild animal farms

☐ Imported frozen foods

☐ Laboratory, experimentation, or research

☐ Natural causes (for example, through natural mutation or natural environmental causes)

☐ I don't know

☐ Other (please specify)

Q10. In the past year, has your opinion of where COVID-19 originated changed?

○ Yes

○ No

Q11. If you changed your mind about the location where COVID-19 originated, where did you **previously** think COVID-19 most likely first originated?

○ China

○ Europe

○ US

○ South Asian subcontinent

○ [   ] Other (please specify)

○ I don't know

○ I did not change my mind about this

Q12. If you changed your mind about the source of COVID-19, which of the following sources did you **previously** think COVID-19 most likely originated from? Select all that apply.

☐ Wild animals in a wet market

☐ Wild animal farms

☐ Imported frozen foods

☐ Laboratory, experimentation, or research

☐ Natural causes (for example, through natural mutation or natural environmental causes)

☐ I didn't know

☐ [   ] Other (please specify)

☐ I did not change my mind about this

Q13. What has been the cause of this change in opinion? Select all that apply.

☐ National news reports

☐ Scientific reports

☐ World Health Organization (WHO) investigation results

☐ Social media

☐ Talking with friends and family

☐ [   ] Other (please specify)

☐ I have not changed my opinion

Q14. Which of the following species do you consider a "wild animal"? Please select as many species as apply.

☐ Snakes

☐ Bats

☐ Rabbits

☐ Bamboo rats

☐ Pigeons

☐ Seafood

☐ Frogs

☐ Caterpillar fungus

☐ It depends on how the animals live (for example, raised on farms versus living in nature with no human assistance)

☐ [   ] Comments (optional)

Q15. How likely is it that COVID-19 was transmitted to humans from wild animals?

○ Very unlikely

○ Somewhat unlikely

○ Neither likely nor unlikely

○ Somewhat likely

○ Very likely

Q16. Please select which of the following species you think are likely transmitters of COVID-19 to humans. Please select as many answers as apply.

☐ Bat

☐ Pangolin

☐ Seafood

☐ Snake

☐ Bamboo rat

☐ Mink

☐ Civet

☐ Frog

☐ Tiger

☐ Bear

☐ [   ] Other (please specify)

☐ None of the above

Q17. Which of the following animals (farmed or caught from the wild) do you consume as food or medicine? Select all that apply.

☐ Wild birds (for example, pheasant, pigeon, etc.)

☐ Amphibians (for example, frog, salamander, etc.)

☐ Reptiles (for example, snakes, turtles, etc.)

☐ Mammals (for example, bats, bamboo rats, rabbits, civets, etc.)

☐ Animal parts used in Traditional Chinese Medicine (for example, dear musk, tiger bone, pangolin, bear bile, etc.)

☐ [   ] Other (please specify)

☐ None of the above

Q18. Has your wild animal consumption behavior changed since the outbreak of COVID-19?

○ Yes, I am **more likely** to consume wild animals since the outbreak of COVID-19

○ Yes, I am **less likely** to consume wild animals since the outbreak of COVID-19

○ No, my wild animal consumption behavior **has not changed** since the outbreak of COVID-19

○ No, I have never consumed wild animals before COVID-19 and am equally unlikely to consume wild animals now

○ [   ] Other (please specify)

Q19. **Before COVID-19**, how frequently did you consume wild animals (for example, eat meat or other parts of wild animals farmed or caught in the wild for food or medicine)?

○ Never

○ One to five times a year

○ On a monthly basis

○ On a weekly basis

Q20. **Currently**, how frequently do you consume wild animals (for example, eat meat or other parts of wild animals farmed or caught in the wild for food or medicine) ?

○ Never

○ One to five times a year

○ On a monthly basis

○ On a weekly basis

Health and TCM

Q21. Which of the following Traditional Chinese Medicine products and techniques do you use?

☐ Acupuncture

☐ Massage

☐ Cupping

☐ Herbal supplements

☐ Diet balancing according to warming, cooling, strengthening foods

☐ Supplements derived from wildlife (bear bile, deer musk, tiger bone, pangolin scale, etc.).

☐ [_____] Other (please specify)

☐ None of the above

Q22. How frequently do you use or practice Traditional Chinese Medicine?

○ Never
○ One to five times a year
○ On a monthly basis
○ On a weekly basis

Q23. In your opinion, how effective is Traditional Chinese Medicine?

○ Not effective
○ Maybe effective
○ Effective

Q24.
Do you think it is beneficial to your health to consume meat from animals that have been slaughtered recently?

○ Yes
○ No
○ Maybe

Q25. Do you think it is beneficial to your health to consume a variety of wild animals in addition to the major domesticated species (chicken, beef, pork, and lamb)?

○ Yes
○ No
○ Maybe

Q26. What is preferable for treating COVID-19?

○ Western medicine

○ Traditional Chinese Medicine

○ A combination of Western medicine and Traditional Chinese Medicine

---

Regulation and Prevention

Q27. What do you think is an effective way to prevent the emergence of diseases such as COVID-19? Select as many answers as apply.

☐ Regulate wet markets

☐ Regulate wild animal farms

☐ Restrict wild animal trade

☐ Monitor or restrict imported products

☐ Invest in public health

☐ Regulate virology research

☐ [   ] Other

Q28. In general, do you think wild animals should be:

○ Used

○ Protected and not used

○ A combination of used and protected

Q29. Do you think wild animals used for consumption (farmed or caught in the wild) and domesticated animals used for consumption should be regulated differently?

○ Yes

○ No

○ Maybe

Q30. How do you think wild animals should be regulated differently than domesticated animals? Select all that apply.

☐ No hunting or farming of wild animals should be allowed

☐ No hunting of wild animals should be allowed, but farming wild animals is allowable

☐ More regulations should be put in place for wild animal farming than for domesticated animal farming

☐ [   ] Other (please specify)

☐ I do not think wild animals and domesticated animals should be regulated differently

Regulation and Prevention Part 2

Q31. Do you support a ban on the sale of the following animals, **if caught from the wild**?

	Yes, I support a ban on selling this animal, if caught from the wild.	**No**, I don't support a ban on selling this animal, if caught from the wild.
Bat	○	○
Pangolin	○	○
Snake	○	○
Bamboo rat	○	○
Mink	○	○
Civet	○	○
Frog	○	○
Tiger bone	○	○
Bear bile	○	○
All wild animals	○	○

Q32.

Do you support a ban on **farming** the following animals?

	Yes, I support a ban on farming this animal	**No**, I don't support a ban on farming this animal
Bat	○	○
Pangolin	○	○
Snake	○	○
Bamboo rat	○	○
Mink	○	○
Civet	○	○
Frog	○	○
Tiger bone	○	○
Bear bile	○	○
All wild animals	○	○

Q33. If you support a ban on any animals in the previous questions, what is your reason for support? Select all that apply.

☐ To protect against future pandemics
☐ To protect individual consumer health
☐ To protect the environment
☐ To protect animal welfare
☐ [_____] Other (please specify)

Q34. Do you think people are following the ban on wild animal consumption issued after COVID-19?

○ Yes
○ No
○ I don't know this policy

Q35. Do you think the ban on wild animal consumption is:

○ Adequate

○ Too strict

○ Not strict enough

○ I don't know this policy

○ [   ] Other (please specify)

Q36. Do you think current policies governing wild animals in China in general are:

○ Adequate

○ Too strict

○ Not strict enough

○ [   ] Other (please specify)