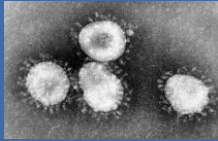


One Health opportunities for the zoo community during COVID and in a "post-pandemic" world

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 Director, Saint Louis Zoo Institute for Conservation Medicine



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COVID related stresses

- Own and family health and wellness
- Job security
- Economic uncertainties
- Loss of conservation programs
- State of the World 2020

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COVID related stresses

- Own and family health and wellness
- Job security
- Economic uncertainties
- Loss of conservation programs
- State of the World 2020
- Triple this for conservationists



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Initiative Aims to Merge Animal and Human Health to Benefit Both
 Science 2007



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One Health is a collaborative, multisectoral, and transdisciplinary approach—working at the local, regional, national, and global levels—with the goal of achieving optimal health outcomes recognizing the interconnection between people, animals, plants, and their shared environment.



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Anthropocene

- Significant, irreversible impacts
- Humans are the greatest threat to planetary health
- All major threats directly or indirectly related to human actions



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COVID driven opportunities for *all* zoo staff

Outreach

- Bi-directional movement of zoonoses
- Anthropocene and current EIDs
- Prevention cheaper than cure!




COVID driven opportunities for *all* zoo staff

Outreach





Will they listen?

Wet markets—a continuing source of severe acute respiratory syndrome and influenza?

Wet markets—open-air markets where animals are sold and prepared for consumption—have been identified as a potential source of zoonotic pathogens, including severe acute respiratory syndrome (SARS) and influenza. These markets often lack adequate biosecurity measures, such as proper handling and disposal of animal carcasses, and may facilitate the spread of pathogens between animals and humans. This review discusses the role of wet markets in the transmission of SARS and influenza, and the need for improved biosecurity measures to reduce the risk of zoonotic disease outbreaks.

Severe Acute Respiratory Syndrome Coronavirus as an Agent of Emerging and Reemerging Infection

*Yoon C. C. Cheng, Susanna K. P. Lau, Patrick C. Y. Woo, and Kwok-Yang Yung**

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Outreach



- Epidemiology
- Wet markets
- Flatten the curve
- Zoonoses
- Food security
- CAFOs
- One Health
- R₀




SARS-CoV-2 origin: Wet markets




Our Patients









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Resources

- <https://www.onehealthcommission.org/>
- <https://onehealthinitiative.com/>
- <https://www.avma.org/resources-tools/animal-health-and-welfare/covid-19>
- <https://www.ama-assn.org/delivering-care/public-health/covid-19-2019-novel-coronavirus-resource-center-physicians>
- <https://www.cdc.gov/onehealth/index.html>
- [LitCovid: Curated literature hub for tracking up-to-date scientific information about the 2019 novel coronavirus](#)



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August 2020

Action on COVID-19 is a One Health context, with emphasis on wet markets and illegal wildlife trade.

Staff and visitors of the Saint Louis Zoo Institute for Conservation Medicine are gathering, reading, writing, and discussing the news with our understanding of the big picture: the COVID-19 pandemic and the regional impact from its spread and wildlife markets. These are for the most part separate stories. Additionally, we have been conducting webinars that speak to the challenges involving wildlife conservation and public health, from disease change and habitat fragmentation to biodiversity loss and wet markets, as they are coming to view in the face of the pandemic. We will update the list weekly and we welcome any other webinars that you feel we have missed and that we should include in this document.

Updated Daily: Zhong, L.S., Chen, Chen, and Adams AM. National Institute of Health. National Center of Zoonotic and Emerging Infectious Diseases. [Scientific updates: Coronavirus disease 2019 \(COVID-19\)](#). [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7249361/](#).
* For up-to-date science for animals, publications on COVID-19.

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