One Health &
The Pandemic
Response

Dr. Deborah Thomson, DVM
Founder and President of
One Health Lessons

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Chico airport, near Paradise (2018)
The power of stories
WHAT IS ONE HEALTH?

• **Teamwork** between people who care for our health, and the health of the environment, animals, and plants.
Thoughts on zoonotic origins of SARS-CoV-2

What is a “Zoonotic Disease”?

A disease that jumps between different species.

Examples: Novel Coronavirus, Rabies, (sometimes) Flu
Thoughts on zoonotic origins of SARS-CoV-2

Published online 2019 Mar 2. doi: [10.3390/v11030210](https://doi.org/10.3390/v11030210)

**Bat Coronaviruses in China**

Yi Fan, Kai Zhao, Zheng-Li Shi, and Peng Zhou
Human-animal interactions and bat coronavirus spillover potential among rural residents in Southern China

Hongying Li a, f, Emma Mendelsohn a, Chen Zong b, Wei Zhang c, Emily Hagan a, Ning Wang c, Shiyue Li d, Hong Yan d, Huimin Huang d, Guangjian Zhu a, Noam Ross a, Aleksei Chmura a, Philip Terry e, Mark Fielder f, Maureen Miller g, Zhengli Shi c, Peter Daszak a, h, i

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https://doi.org/10.1016/j.bsheal.2019.10.004
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Remember:
Bats are really important!!!
One Health
One Health
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Remember:
Bats are really important!!!
My fears re: public health response

Lack of public and child education!!
Virus  =  Shell  +  Core
Infection + Replication
Opportunity* to improve your communication & leadership skills…

- And gain TOUCH hours!
Lesson Leaders Program
With One Health Lessons
Step 1:
Attend a 1-hour online training session.
Step 2: Watch an entire One Health lesson on YouTube.
Step 3:
Observe a live One Health lesson.

What is "One Health"?

The connection between:

Animal Health
Human Health
Environmental Health
Step 4: Teach a One Health lesson.
Step 5: Bring One Health Lessons home.

<table>
<thead>
<tr>
<th>Language</th>
<th>Translation</th>
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<tbody>
<tr>
<td>Français</td>
<td>Yoruba</td>
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Step 6: Teach others in your community how to teach.
Trained 20+ university students
To teach 2,000+ children
In 2 weeks!

Charles
One Health Lessons Ambassador
How to become a volunteer Lesson Leader

Send an email expressing your interest to:

LessonLeadersProgram@gmail.com

www.OneHealthLessons.com
Lessons from the Classroom
Lost in Translation

1. I describe changes seen off camera and explain them to you.
2. You try to imitate what I am explaining.
3. We check and see if our communication (like translation) is clear or if there is a mutation!
Awareness:
Earth day
Awareness:

Yale Center on Climate Change and Health
One Health Awareness Month: Social Media Campaign
Karen Nyberg, NASA Astronaut

“In the future, I would like to be more of an advocate for animal conservation. Every single part of the Earth reacts with every other part. It’s one thing. Every little animal is important in that ecosystem. [Seeing the planet from above] makes you realize that, and makes you want to be a little more proactive in keeping it that way. If I could get every Earthling to do one circle of the Earth, I think things would run a little differently.”

(a mechanical engineer)
What we depend on
The Future of One Health is Global
One Medicine Pre-Event Survey with One Health Lessons
Email: OneHealthLessons@gmail.com
LinkedIn: Deborah Thomson, DVM
Website: www.Deborah-Thomson.com

Facebook: One Health Lessons
Instagram: @OneHealthLessons
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