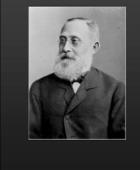
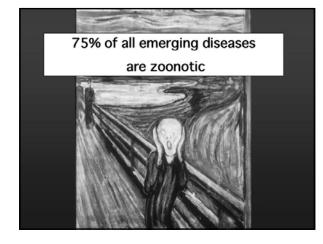


#### **Rudolf Virchow**



- · 1821-1905
- · Father of modern pathology
- First to use the term
- "zoonosis"









# Underlying factors of disease emergence

- movement to a new population
- · environmental disruption
- crossing species boundaries
- · lifestyle (husbandry) changes

# **Emerging Zoonosis – Blurring Interface of Human and Animal Diseases** Dr. Corrie Brown, DVM PhD

**A Webber Training Teleclass** 

### Globalization/Future Shock

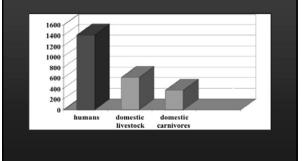
- Increasing human population
- · Changing environment
- · International trade/globalization





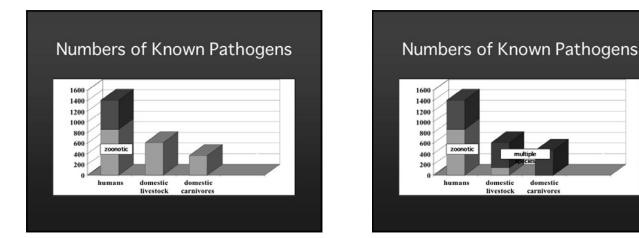


Numbers of Known Pathogens



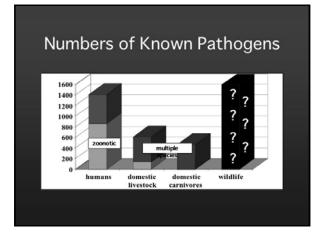
domestic

carnivores



## Emerging Zoonosis – Blurring Interface of Human and Animal Diseases Dr. Corrie Brown, DVM PhD

A Webber Training Teleclass

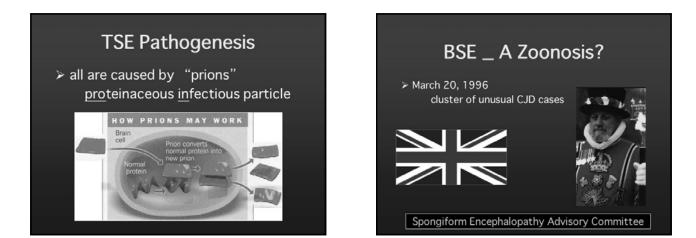








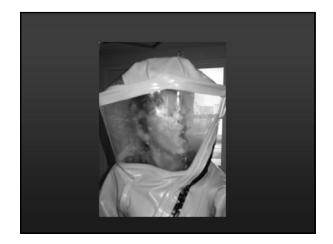
 Caused by a prion agent

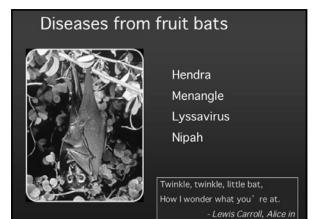


	<u>vCJD</u>	<u>CJD</u>
age	young	old
disease course clinical disease	prolonged	rapid
	behavioral changes	dementia
PrP plaques	frequent	infrequent









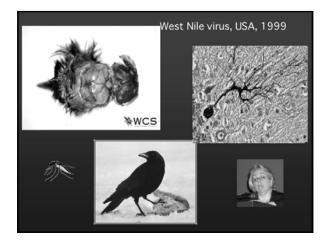


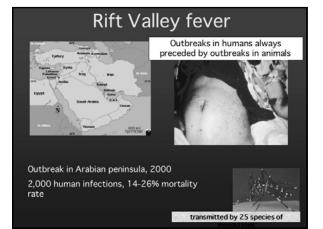
Hosted by Paul Webber, paul@webbertraining.com www.webbertraining.com

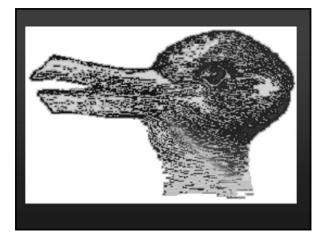
Wonderland



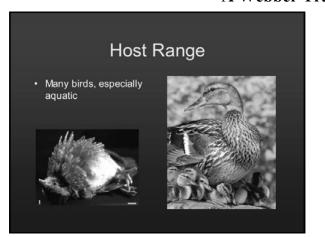






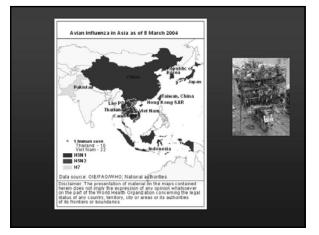












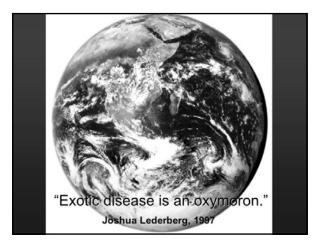




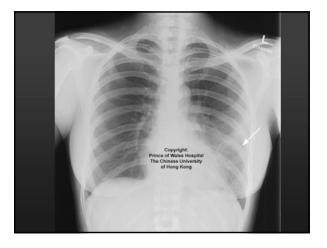


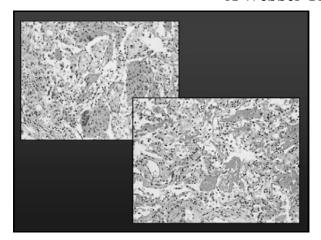




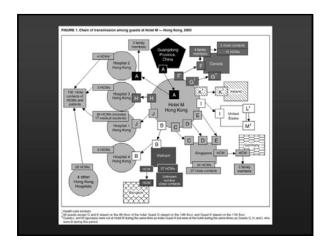




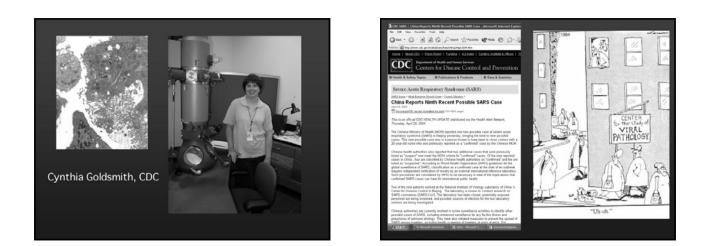




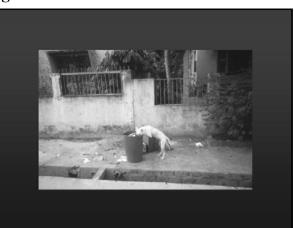












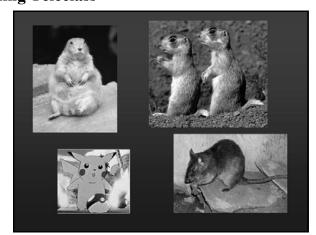




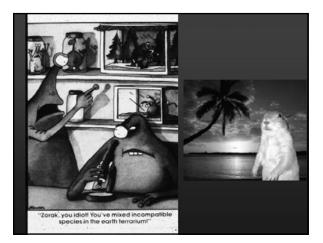








#### Tularemia outbreak identified in pet prairie dogs



#### Wildlife ranching

- South Africa \_ 13,000 game ranches, 4,000 are integrated domestic/wild animals
- Deer farming \_ 4.8M worldwide \_ New Zealand \_ \$200M per year
- \_ China \_ 0.5M animals for velvet
- \_ Throughout Europe
- Costa Rica \_ 10,000 iguanas per year
- · Brazil \_ 100 metric tonnes of capybara, peccaries, turtles, for consumption



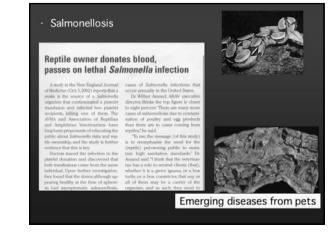
#### Diseases from pets

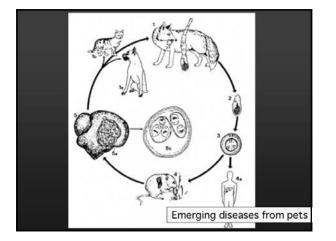
136M dogs and cats in U.S.
62M households with pets
Increasing importance of human-animal bond











### Alveolar hydatid disease

 Echinococcus multilocularis \_ range increasing





