Wildlife Trade and Global Disease Emergence

Karesh et al 2005
Wildlife Trade

• Tens of millions of wild animals are shipped each year from East and SE Asia
• Traded as pets, food, and ingredients in traditional medicine
• A lot of it is illegal
Wildlife Trade Effects

• Increase contact rate of pathogens to humans
  • Ex. HIV from SIV, Ebola hemorrhagic fever, SARS

• Increase contact rate of pathogens to wildlife and domesticated animals
  • Ex. H5N1 type A influenza, Paramyxovirus, Monkeypox

• Increase movement of infected animals to previously uninfected areas

• Increase cross-species transmission potential

• Hurts International trade/ Economics
  • Ex. Mad Cow disease, Avian influenza, Swine fever
Regulation of Wildlife Trade Markets

• As a means to reduce contact rate and possible outbreaks
• Reduce contact among species
• Major hubs of trade should be controlled and regulated, or eliminated to prevent disease
References

- Image from: http://www.ourplanet.com/imgversn/105/images/kendall.jpg