What do we mean by “One Welfare’? 

David Fraser 
Animal Welfare Program, 
University of British Columbia
• Reduced availability of flowering/fruiting forest trees

• Reduced availability of flowering/fruiting forest trees
• Encroachment of fruit-bats into cultivated orchards
• Reduced availability of flowering/fruiting forest trees
• Encroachment of fruit-bats into cultivated orchards
• Bat droppings and partly eaten fruit fell into pig enclosures below the trees

“One Health”

“... that human health and animal health are interdependent and bound to the health of the ecosystems in which they exist”

OIE, 2013
“One Welfare”
1. Improving animal welfare often improves human welfare (and *vice versa*)
• well-designed harnesses
• adequate nutrition
• more efficient carts

Capacity building to implement good animal welfare practices

FAO Expert Meeting
FAO Headquarters (Rome) • 30 September – 3 October 2008
• Good handling: improve growth and reproduction
• Good nutrition: improve production efficiency
• Safe, comfortable environments: prevent loss through injuries
• Good loading and transport: reduce losses through stress
• Sanitation, hygiene: improve food safety
Negative handling of dairy cows: slaps, hits, pushes, tail-twists

<table>
<thead>
<tr>
<th>Variable</th>
<th>Correlation</th>
<th>P</th>
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<tbody>
<tr>
<td>Avoidance of handler</td>
<td>+0.33</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>Cortisol in milk</td>
<td>+0.34</td>
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<tr>
<td>Yearly milk yield</td>
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Negative handling

Chronic fear

Classic stress response

Reduced:
- Growth
- Reproduction
- Immune competence

Based on Hemsworth and Coleman, 2011
Based on Hemsworth and Coleman, 2011

Negative handling

Chronic fear

Classic stress response

Selection, Training

Reduced:
- Growth
- Reproduction
- Immune competence
Model gaushalas

Photo: Dev Sanskriti Vishwavidyalaya
Model gaushalas

- biogas
- vermi-compost
- power
- training
- genetic improvement of local breeds

Photo: Dev Sanskriti Vishwavidyalaya
• responsibility
• patience
• tolerance
• empathy
• satisfaction through service
2. The need to coordinate actions
Abuse

Photo: Mercy for Animals
“Women residing at domestic violence shelters were nearly 11 times more likely to report that their partner had hurt or killed pets than a comparison group of women who said they had not experienced intimate violence.”

In some cases the threat of harm to the animals was so severe that women delayed escaping from violent partners because of fears for the animals’ safety.

Neglect
Farm animal neglect in Denmark

“…that animal neglect is embedded in a complex network of other problems in agriculture”

Farm animal neglect in Denmark

“…that animal neglect is embedded in a complex network of other problems in agriculture”

“severe financial difficulties, divorce and psychiatric problems”

Farm animal neglect in Ireland

# Farm animal neglect in Ireland

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## Farm animal neglect in Ireland

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<td>the farmer did not attach high priority to animal welfare</td>
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Hoarding

Photo: www.animalsheltering.org
Hoarding

• accumulation of many animals that overwhelm their ability to provide care

(G. Patronek, 2001)

Photo: www.animalsheltering.org
Hoarding

• accumulation of many animals that overwhelm their ability to provide care
• failure to acknowledge the deteriorating condition

(G. Patronek, 2001)
Hoarding

• accumulation of many animals that overwhelm their ability to provide care
• failure to acknowledge the deteriorating condition
• failure to recognize the harm to their own health and wellbeing

(G. Patronek, 2001)
Co-morbidity of Hoarding Disorder

Major depression 57%
Social phobia 29%
Generalized Anxiety Disorder 28%
Obsessive-Compulsive Disorder 17%

Disaster Relief

PLEASE HELP US!

5 - PEOPLE
1 - DOG
1 - CAT
Disaster Relief

Photo: World Vets
2. The need to coordinate action between veterinary and other services

- violence and animal abuse
- animal neglect and hoarding
- disaster relief
3. Protecting the environment is fundamental for both human and animal welfare
Introduction of invasive species

Courtesy: Kangaroofarmer
Coastal Dead Zones

Coastal Dead Zones

“Dead zones have now been reported from more than 400 systems, affecting a total area of more than 245,000 square kilometers ... [and causing]... mass mortality”

R Diaz & R Rosenberg 2008 Spreading dead zones and consequences for marine ecosystems. Science 321: 926-929
Climate change

Photo courtesy: Kerstin Langenberger Photography
Climate change

… we predict, on the basis of mid-range climate-warming scenarios for 2050, that 15–37% of species in our sample of regions and taxa will be ‘committed to extinction’...

The same human activities driving the current extinction crisis are also causing suffering, fear, physical injury, psychological trauma, and disease in wild animals.

Paul Paquet & Chris Darimont, 2010
Animal Welfare 19: 177-190
3. Protecting the environment is fundamental to both human and animal welfare

Changes to:

• the biotic community
• to chemical balances
• and to global climate

may prove to be some of the greatest threats to both human and animal welfare in our current century.
What do we mean by “One Welfare”?
What do we mean by “One Welfare”?

“One Welfare” serves as a call to recognize the many interconnections between human welfare, animal welfare and the integrity of the environment.
What do we mean by “One Welfare”?

1. Improve animal welfare to improve human welfare (and *vice versa*)
2. Co-ordinate actions between veterinary and other services
3. Protect the environment as a fundamental step for both human and animal welfare