

Concepts in Animal Welfare

An animal welfare syllabus

(CD ROM format)



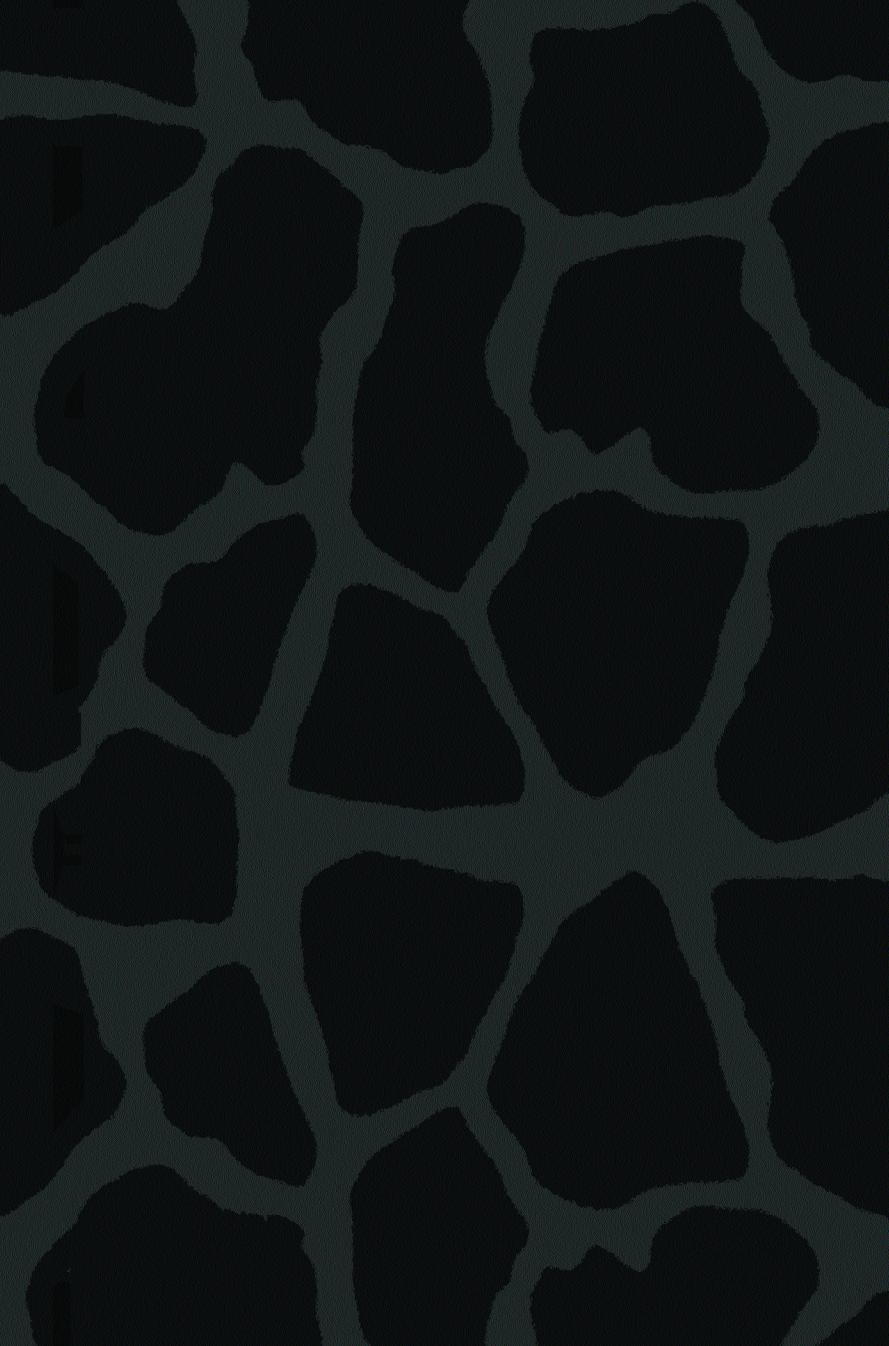
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BRISTOL





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1. Foreword

Every student who embarks on an education in veterinary science and medicine will, I believe, have formed some impression of what is meant by animal welfare and committed themselves to work to promote the welfare of those animals committed to their care. This is the spirit of veterinary medicine, but it is only the beginning of a proper veterinary education. The welfare of an animal is defined by its physical and psychological state. Thus it should both be fit and feel good. Much of the veterinary curriculum is devoted to the art and science of keeping animals fit through attention to good husbandry, hygiene, preventative medicine and prompt treatment of injury and disease. Less attention has been given in the past to the study of how animals feel. This subject is much more difficult than it may appear at first sight. If I can never be entirely sure how you feel, how much more difficult is it to understand the feelings of a cow, a chicken or a fish?

The World Society for the Protection of Animals (WSPA), in association with the Veterinary School at the University of Bristol, have produced an excellent, comprehensive syllabus for the teaching of Animal Welfare within the veterinary curriculum. I am able to praise it because I was not directly involved,

although my colleagues have contributed a great deal. The syllabus is comprehensive because it gives regard to science as the route to the proper understanding of animals, ethics as the route to proper respect for animals, and professional training as the route to converting right thoughts into right action.

A programme of study in animal welfare, involving formal teaching, practical experience and supervised self-education, is as essential to the veterinary curriculum as a programme in pathology or surgery. It is for individual schools to decide how best to deliver the syllabus. In the past, this has proved a problem because many veterinary teachers were not sure what the syllabus should contain. 'Concepts in Animal Welfare' precisely and effectively meets this educational need. I am confident that it will make a significant contribution to improving the teaching of animal welfare in veterinary colleges worldwide. This will be good for the animals too.

**John Webster, Emeritus Professor of Animal Husbandry,
University of Bristol Department of Clinical Veterinary Science, UK
2003**

2. Introduction and explanatory notes

The ‘Concepts in Animal Welfare’ syllabus aims to facilitate the teaching of animal welfare to veterinary students. We are very pleased to present the revised, updated and expanded version of this successful resource.

This resource has been widely accepted as a unique and valuable professional tool. Several people have been responsible for its inception, its development and revision but in particular WSPA recognises the vision of those who turned an idea into reality and acknowledges in particular the contribution of Joy Leney, John Callaghan, Deepashree Balaram, David Main and staff at the University of Bristol.

In 2003 ‘Concepts in Animal Welfare’ was launched on CD ROM by the World Society for the Protection of Animals (WSPA), the result of collaboration with the Department of Clinical Veterinary Science at the University of Bristol in England. This resource has been distributed to over 750 universities worldwide, and over 350 veterinary faculties have been involved in workshops or conferences organised or facilitated by the WSPA. The syllabus has been translated into Spanish, Portuguese, Russian, Polish and Japanese, and will be translated into Chinese (Mandarin) in 2008.

Response from individual lecturers, deans, veterinarians from leading international organisations such as the OIE, World Veterinary Association, Commonwealth Veterinary Association etc. has been overwhelmingly positive. Hundreds of academic lecturers worldwide are using the syllabus in their teaching. Many agricultural schools or other animal science related courses have also shown an interest in the syllabus.

In 2007 the content was revised and updated to reflect new developments in the science of animal welfare, and expanded to include three new topical modules: “Food and animal welfare”, “Welfare of fish” and “Environmental enrichment”.

2.1 Modules

The modules build on the experiences of both the University of Bristol and WSPA. In the case of WSPA this includes fifty years of international experience of working with animals through our extensive network of member societies (over 850 at the end of 2007), collaboration with governments, international organisations and professional bodies, especially veterinarians. For its part, the University of Bristol is one of the leading establishments in the world in relation to the study of animal welfare science.

2.1.1 Disaster management module

WSPA recognises the important role veterinarians play globally in disaster preparedness, disaster risk reduction, disaster response, the provision of relief and rehabilitation for affected animals and the role of NGO's in supporting the veterinary profession in affected areas. In 2008 WSPA will be developing a comprehensive stand-alone syllabus on Disaster Management aimed at the undergraduate veterinary level. For this reason the 'Disaster Management' module is not included in the new 'Concepts in Animal Welfare' syllabus.

2.1.2 Module categories

The new resource consists of 34 teaching modules covering a wide range of animal welfare topics. There are four categories of modules:

1. Animal welfare science (9 modules)
2. Ethics (3 modules)
3. Applications of animal welfare science (14 modules)
4. Animals and society (8 modules)

Although most of the 34 modules are independent of one another they can be used together as a comprehensive animal welfare course providing approximately 35-40 hours of teaching material. The following suggestions on how to use the resource may be of help.

2.2 Introduction to using this resource

There is a short, introductory presentation which includes the overall aims and objectives of the course. It also includes an outline of the content of each of the modules. It is recommended to view this introduction before using the rest of the modules.

2.2.1 PowerPoint presentation, questions & answers, discussions and projects

Each module consists of three learning stages:

1. Providing information: A PowerPoint slide show with comprehensive notes for the lecturer. The PowerPoint module opens in presentation mode. Right click with the mouse on the slide and select 'Edit slides' to view the notes.
2. Assimilate information: Discussion and Project ideas (in Word format) are associated with each module.
3. Assess understanding: Approximately ten questions and answers (Q&A in Word format) are provided for each module.

The questions and answers could be used for revision purposes or as the basis for a course examination, although the level of understanding tested usually does not exceed the basic level covered in the PowerPoint presentation. Through discussions and projects, students will be able to gain a deeper understanding of the issues. The three new modules experiment with new types of

questions, discussion and project ideas. A 12 page bibliography containing references from all 34 modules can be accessed from the title page.

2.2.2 Adapting the resource

Experienced teachers of animal welfare may wish to select and adapt modules for their existing course. In the 'Introduction' we suggest a core of 'critical' sessions which can form the basis of an introductory animal welfare course.

It is recognised that veterinary courses around the world are constructed according to a range of factors including local conditions, culture, availability of resources and interests of the academic staff. Examples of animal welfare from situations around world have now been included whilst keeping the syllabus as generic as possible. Consequently some modules or slides may be less relevant to certain universities. Lecturers may have to adapt certain slides for their region – e.g. by substituting relevant animal species.

The modules have been designed to cover a wide range of issues, but care will have to be taken that issues that are particularly sensitive in a particular culture are suitably adapted or omitted.

2.3 Updates and feedback

The new version aims to be more comprehensive, more clinically relevant, with new updates in the field of animal welfare science. In addition 'animal training' and 'motivation' are briefly discussed; the link between animal abuse and interpersonal violence is made more explicit in several modules; and communication between veterinarians and clients is briefly addressed. It is hoped that the new pictures add to the overall understanding, that the language is more inclusive and mistakes have been identified and corrected.

We are excited about the revised, updated and expanded version of 'Concepts' and hope that it will provide you with the tools you need for effective animal welfare teaching. All resources need to be updated as new knowledge is acquired and this resource is no exception. We plan to provide updates in the future via the Internet. We also hope to be able to support initiatives aimed at implementing the teaching of animal welfare in the curriculum.

We are keen to receive feedback about the usefulness of this resource and an assessment form is included on the CD ROM for this purpose. Some previous feedback we received included requests for more case studies and additional resources. We decided to refer to existing relevant materials developed by other universities or NGOs, rather than including them on the CD ROM.

2.4 Lifelong Learning / Continuous Professional Development

The modules are aimed at stimulating critical thinking about welfare issues. The resource does not provide all the answers. Indeed, for some issues there are no clear solutions. Help can be found from a variety of sources, some local and some international. To help with broadening the scope of this resource we have provided a list of useful websites as well as reading references.

We believe that veterinarians play a major role in directly improving animal welfare through their own actions and by influencing others to do the same. We hope that this resource will play an important part in helping veterinarians of the future to develop a greater understanding of the welfare of animals by stimulating focused critical thinking on welfare issues, not only during their veterinary course but throughout their veterinary career.

The 'Concepts in Animal Welfare' syllabus can also be used during Lifelong Learning or Continuous Professional Development (CPD) courses which are equally as important as animal welfare subjects at the undergraduate level. However, the syllabus remains just an introduction to animal welfare topics

and those individuals wishing to pursue a career in the field of animal welfare science will need to undertake further training.

We would be pleased to provide any further information if you contact WSPA via email: education@wspa-international.org, or via telephone: +44 20 75875000.

Jasmijn de Boo, BSc (Hons), MSc, DipEd

Education Programmes Manager, WSPA

February 2008

3. Module details

(* = Critical module)

Module title	Detail	Category	
1. Animal welfare: Introduction*	<ul style="list-style-type: none"> ■ Animal welfare definitions ■ Concept of animal needs ■ Role of science, ethics & legislation 	Animal Welfare Science	
2. Welfare assessment and the Five Freedoms *	<ul style="list-style-type: none"> ■ Measuring animal welfare using the 'Five Freedoms' ■ Introduction to science methodologies 	Animal Welfare Science	
3. Physiological measures of animal welfare (1)	<ul style="list-style-type: none"> ■ Physiological measures of good/poor welfare: autonomic nervous system (ANS) 	Animal Welfare Science	
4. Physiological measures of animal welfare (2)	<ul style="list-style-type: none"> ■ Physiological measures of good/poor welfare: neuroendocrine 	Animal Welfare Science	
5. Disease and production measures of animal welfare	<ul style="list-style-type: none"> ■ Relationship between welfare and disease ■ Relationship between welfare and production 	Animal Welfare Science	
6. Behavioural measures of welfare (1)	<ul style="list-style-type: none"> ■ Behavioural measures of good/poor welfare: motivation, choices and preferences 	Animal Welfare Science	
7. Behavioural measures of welfare (2)	<ul style="list-style-type: none"> ■ Behavioural measures of good/poor welfare: signs of normal and abnormal behaviour 	Animal Welfare Science	
8. Group assessment and management of welfare*	<ul style="list-style-type: none"> ■ Welfare assessment at group level ■ Management of welfare in group systems 	Animal Welfare Science	
9. Food and animal welfare	<ul style="list-style-type: none"> ■ Relation of food and feeding to Five Freedoms ■ Environmental enrichment and feeding systems 	Animal Welfare Science	
10. Introduction to animal welfare ethics*	<ul style="list-style-type: none"> ■ The moral status of animals ■ Ethical theories ■ Animal welfare versus animal rights 	Ethics	
11. Interaction with other ethical concerns	<ul style="list-style-type: none"> ■ Animal welfare in relation to human welfare ■ Animal welfare in relation to conservation ■ Environmental factors 	Ethics	
12. Influence of the marketplace on animal welfare	<ul style="list-style-type: none"> ■ Effects of animal welfare on local markets ■ Role of global and national retailers ■ Influence of WTO 	Ethics	

Module title	Detail	Category
13. Livestock: Welfare assessment and issues (1)	<ul style="list-style-type: none"> ■ Causes of poor welfare ■ Welfare assessment on farm ■ Welfare potential 	Applications of Animal Welfare Science
14. Livestock: Welfare assessment and issues (2)	<ul style="list-style-type: none"> ■ Husbandry systems ■ Principal welfare issues ■ Mutilations 	Applications of Animal Welfare Science
15. Livestock: Transport & markets	<ul style="list-style-type: none"> ■ Transport of live animals ■ Markets 	Applications of Animal Welfare Science
16. Livestock: Slaughter	<ul style="list-style-type: none"> ■ Methods of slaughter ■ Religious slaughter ■ Effectiveness of legislation 	Applications of Animal Welfare Science
17. Welfare of fish	<ul style="list-style-type: none"> ■ Fish biology & husbandry ■ Welfare assessment in fish 	Applications of Animal Welfare Science
18. Companion Animals: Population control programmes	<ul style="list-style-type: none"> ■ Responsible ownership ■ Population control strategies 	Applications of Animal Welfare Science
19. Companion Animals: Wider considerations	<ul style="list-style-type: none"> ■ Role of rescue shelters ■ Welfare implications of neutering programmes ■ Control of the pet trade ■ Aggressive dogs ■ Breeding and Showing ■ Mutilations for cosmetic purposes 	Applications of Animal Welfare Science
20. Euthanasia	<ul style="list-style-type: none"> ■ Criteria for euthanasia ■ Humane methods ■ Cultural considerations ■ Legal considerations ■ Indiscriminate euthanasia as means of rabies control ■ Communication skills with clients 	Applications of Animal Welfare Science

Module title	Detail	Category
21. Working animals	<ul style="list-style-type: none"> ■ Working equines/buffalo/camels/ oxen/elephants ■ Working conditions ■ Husbandry systems 	Applications of Animal Welfare Science
22. Animals in research, testing and education	<ul style="list-style-type: none"> ■ Uses of experimental animals ■ Ethics for and against such use ■ Welfare issues ■ Biotechnology/genetic engineering ■ Alternative methods ■ Legal controls 	Applications of Animal Welfare Science
23. Wild animal welfare(1): management of wildlife	<ul style="list-style-type: none"> ■ Welfare issues of free-living wild animals and captive wild animals ■ Potential solutions to welfare issues 	Applications of Animal Welfare Science
24. Wild animal welfare (2): adverse effects of using wildlife commercially	<ul style="list-style-type: none"> ■ CITES and related controls on trade in wildlife ■ Hunting, trapping & capture of wild animals ■ Examples of trade in different animals and animal parts ■ Implications of exploitation 	Applications of Animal Welfare Science
25. Animals used in entertainment	<ul style="list-style-type: none"> ■ Concept of animals as entertainers ■ Issues surrounding this use ■ Effectiveness of legislation 	Applications of Animal Welfare Science
26. Environmental enrichment	<ul style="list-style-type: none"> ■ Principles and types of environmental enrichment ■ Animal training as a form of environmental enrichment 	Applications of Animal Welfare Science

Module title	Detail	Category
27. Animal protection legislation (1)*	<ul style="list-style-type: none"> ■ Different models of legal systems & types of law ■ Enforcement provisions ■ Reasons why legislation can be ineffective in practice 	Animals & Society
28. Animal protection legislation (2)	<ul style="list-style-type: none"> ■ Obstacles to effective enforcement of statute ■ Political pressure ■ The role of an expert witness 	Animals & Society
29. Human-animal interactions*	<ul style="list-style-type: none"> ■ Human-animal relationship ■ Conflict in human attitudes to animals ■ The relationship between abuse of animals and interpersonal violence 	Animals & Society
30. The role of the veterinarian in animal welfare*	<ul style="list-style-type: none"> ■ Role of veterinarians in animal welfare and ethics issues ■ Ethical decision-making in veterinary practice ■ Attitudes of veterinary students and surgeons (including pain management) ■ Welfare issues in practice 	Animals & Society
31. Humane education & animal welfare education	<ul style="list-style-type: none"> ■ Aims and delivery of humane education ■ The role of veterinarians in changing attitudes ■ Using curriculum and informal education resources 	Animals & Society

Module title	Detail	Category
32. Animal welfare organisations	<ul style="list-style-type: none"> ■ Aims and objectives of animal protection organisations ■ Role within community ■ Training courses/workshops for people working with animals ■ Working relationship with the veterinary profession ■ International co-operation and assistance 	Animals & Society
33. Religion and animal welfare	<ul style="list-style-type: none"> ■ Perceptions and uses of animals in different religions ■ Religious influences on animal welfare 	Animals & Society
34. War and Animal Welfare	<ul style="list-style-type: none"> ■ Impact of war on animals ■ Reasons why legislative and 'social' protection for animals break down during war 	Animals & Society

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Acknowledgments

WSPA expresses its appreciation and thanks for the professional contributions of each of those listed above and to CIWF for its photographs. In particular, we are very grateful to Dr Caroline Hewson who helped substantially with the revision of the modules.

Disclaimer

Views and opinions expressed in this resource represent those of WSPA and should not necessarily be taken as representative of those other organisations which have contributed.

5. Photo credits

All pictures used in these presentations are the copyright of the World Society for the Protection of Animals (WSPA), University of Bristol or Compassion in World Farming (CIWF) except the following:

Module 2 Welfare assessment and the Five Freedoms

Slide 25 BCSPCA

Module 3 Physiological measures of animal welfare (1):

Autonomic Nervous System

Slide 17 Vier Pfoten

Module 5 Disease and production measures of animal welfare

Slide 11 Lekker Dier (The Netherlands)

Module 7 Behavioural measures of animal welfare (2)

Slide 10 Jim Hutchinson

Module 9 Food and animal welfare

Slide 20 NHPA/Steve Robinson – SR0001088A

Slide 23 Solent News and Photo Agency

Module 10 Introduction to animal welfare ethics

Slide 10 Tim Phillips / Animal Defenders International, UK

Slide 16 The Fur Bearers

Slide 25 Anonymous for Animal Rights (Israel)

Module 11 Interaction with other ethical concerns

Slide 22 Paul Goriup, ICCE

Module 12 Influence of the market place on animal welfare

Slide 24 The Fur Bearers

Module 13 Livestock: welfare assessment and issues (1)

Slide 24 Lekker Dier (Netherlands)

Slide 25, 27 Marek Spinka

Module 14 Livestock: welfare assessment and issues (2)

Slide 23 Vicky Alhadeff (Both)

Slide 28 Colin Seddon/CIWF

Slide 34, 35 Lekker Dier (Netherlands)

Module 15 Livestock: transport and markets

Slide 4 CBS Publishers

Slide 24 Algiers

Module 16 Livestock: slaughter

Slide 21, 22, 23, 26, 31 Redrawn from Humane Slaughter Association (HSA) outlines

Module 17 Welfare of Fish

Slide 2, 3, 5, 6, 7, 11, Dr Larry Hammell, Atlantic Veterinary College (Canada)

14, 21, 23, 24, 25, 27, Dr Larry Hammell, Atlantic Veterinary College (Canada)

30, 33, 34, 38, 40, Dr Larry Hammell, Atlantic Veterinary College (Canada)

41, 42, Dr Larry Hammell, Atlantic Veterinary College (Canada)

Slide 26 Digital Vision

Module 18 Companion animals (1): Population control programmes

Slide 4 IAHAIO

Slide 8, 11, 12, 13, 19, Ray Butcher

20, 23, 25, 26, 27, 29, Ray Butcher

30, 31, 32, 33, 34, 37 Ray Butcher

Slide 34 RSPCA (Left)

Module 19 Companion animals (2): Wider considerations

Slide 3, 4, 6, 7, 8, 9, 12, Ray Butcher

13, 14, 15, 16, 17, 18, Ray Butcher

20, 23, 24, 26, 27 Ray Butcher

(bottom), 31 (left), 32, Ray Butcher

35, 36, 37 Ray Butcher

Slide 27(Top) RSPCA

Slide 31 (Top Right) Colin Seddon/RSPCA

Slide 31 (Bottom Right) Colin Seddon/WSPA

Module 20 Euthanasia

Slide 14 EAST (Taiwan)

Module 21 Working animals

Slide 6 (Top)	Tim Phillips / Animal Defenders International, UK
Slide 7 (Top)	B.Traxler
Slide 7 (Bottom)	Anwar Hossain (IFAD)
Slide 8	Thomas Rath (IFAD)
Slide 13 (Bottom)	Piers Locke
Slide 34 (Top)	Tomas Stargardter
Slide 41& 42	Paul Starkey (PTMR)

Module 22 Animals in research, testing and education

Slide 6	C.Iles / Animal Defenders International
Slide 8	R.Beggs / Animal Defenders International
Slide 9	Andrew Knight
Slide 14	PACE
Slide 17	Institute of Animal Technology (IAT), UK
Slide 21(Bottom)	PACE
Slide 16	BUAV
Slide 25	UFAW
Slide 27	Biopac

Module 23 Wild animal welfare and management

Slide 8, 9, 11	Digital Vision
Slide 23	NHPA/Steve Robinson – SR0001088A
Slide 26	Solent News and Photo Agency
Slide 35 (Top)	Piers Locke

Module 24 Commercial exploitation of wildlife

Slide 14, 15 (bottom)	Digital Vision
Slide 17	Karl Ammann
Slide 30	ProFauna (Indonesia)
Slide 43	Karl Ammann
Slide 44	Mike Pugh
Slide 46 (Right)	The Fur Bearers

Module 25 Animals used in entertainment

Slide 28	Colin Seddon
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Module 26 Environmental enrichment

Slide 3, 4, 13, 16, 23	British Columbia Society for the Protection of Animals, Vancouver, Canada
(both), 24 (both), 27,	British Columbia Society for the Protection of Animals, Vancouver, Canada
28 (both), 29, 30	British Columbia Society for the Protection of Animals, Vancouver, Canada
Slide 6	Solent News and Photo Agency
Slide 10	Dr Nicola Rooney, University of Bristol
Slide 15	NHPA/Steve Robinson – SR0001088A
Slide 31 (Both), 32, 36	Dr Nicola Rooney, University of Bristol

Module 27 Animal protection legislation (1)

Slide 3	The Fur Bearers
Slide 23	Algers
Slide 24	CBS Publishers
Slide 26	Left: BCSPCA. Right: C. Iles / Animal Defenders International
International	

Module 29 Human-animal interaction

Slide 7	Dr Nicola Rooney, University of Bristol
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Module 30 The role of the veterinarian in animal welfare

Slide 11	BCSPCA
Slide 30	Diagram by Sir James Dunn Animal Welfare Centre, Atlantic Veterinary College, Canada

Module 31 Humane education & animal welfare education

Slide 9	Humane Education Trust (South Africa)
Slide 11	RSPCA
Slide 12	CIWF Trust
Slide 17	RSPCA/NCDL

Module 32 Animal Protection Organisations

Slide 11	RSPCA/NCDL
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Module 34 War and Animal Welfare

Slide 6	Karl Ammann
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6. Organisations and websites for further information

The following websites may provide further information on a range of animal welfare issues. For a selected references list, please refer to the CD ROM.

Organisation / Institute / web resource	Website (URL)
Agriworld	www.agriworld.nl/
The American Society for the Prevention of Cruelty to Animals (ASPCA)	www.aspca.org/
American Veterinary Medical Association (AVMA)	www.avma.org/
American Anti-Vivisection Society (AAVS)	www.aavs.org/
Animal Experiments Information & Evaluations	www.animalexperiments.info
Animal Behavior Society (ABS)	www.animalbehavior.org
Animal Cruelty Information for Veterinarians	http://canadianveterinarians.net/animal-abuse.aspx
Animal Defenders International (ADI)	www.ad-international.org/
Animal Hoarding	www.tufts.edu/vet/cfa/hoarding/
Animal Legal & Historical Center	www.animallaw.info/
Animal Legal Defense Fund	www.aldf.org/
Animal Management in disasters	www.animaldisasters.com/
Animal Sentience	www.animalsentience.com/
Animal Sheltering Online	http://animalsheltering.org/
Animal welfare judging, online	www.msu.edu/~zanella/awjc.html
Animal Welfare Act (UK)	www.opsi.gov.uk/acts/acts2006/ukpga_20060045_en.pdf

Association of Lawyers for Animal Welfare	www.alaw.org.uk
Association of Veterinarians for Animal Rights (AVAR)	www.avar.org/
The Association for the Study of Animal Behaviour (ASAB)	http://asab.nottingham.ac.uk
Australian and New Zealand Council for the Care of Animals in Research and Teaching	www.adelaide.edu.au/ANZCCART/
Born Free Foundation	www.bornfree.org.uk/
British Union for the Abolition of Vivisection (BUAV)	www.buav.org/
British Veterinary Association Animal Welfare Foundation	www.bva-awf.org.uk/
The Brooke Hospital for Animals	www.thebrooke.org/
Canadian Federation of Humane Societies	http://cfhs.ca/info/educators/
Captive Animals' Protection Society (CAPS)	www.captiveanimals.org/
Captive Wild Animal Protection Coalition	www.cwapc.org/
Center for Environmental Philosophy	www.cep.unt.edu
Circuses.com	www.circuses.com/
Commonwealth Veterinary Association	www.commonwealthvetassoc.org/
Compassion in World Farming	www.ciwf.org.uk/
Consumer Concerns about Animal Welfare and the Impact on Food Choice	http://ec.europa.eu/food/animal/welfare/eu_fair_project_en.pdf
Convention on International Trade in Endangered Species of Wild Fauna and Flora	www.cites.org/
Department for Environment, Food and Rural Affairs (DEFRA) UK	www.defra.gov.uk/animalwelfare

Environmental Investigation Agency (EIA)	www.eia-international.org/
Ethics Updates	http://ethics.sandiego.edu
GLOBALGAP (practical manual for Good Agricultural Practice, GAP)	www.globalgap.org
Eurogroup for Animal Welfare	www.eurogroupanimalwelfare.org/
The European Commission	http://europa.eu/
Farm Animal Welfare Council	www.fawc.org.uk
Farmed Animal Net	www.farmedanimal.net/
Federal Emergency Management Agency	www.fema.gov/
The Federation of European Companion Animal Veterinary Associations (FECAVA)	www.fecava.org/
Federation of Veterinarians of Europe	www.fve.org
Food and Agriculture Organization of the United Nations (FAO)	www.fao.org/
Food Animal Initiative (FAI)	www.faifarms.co.uk/
Fund for the Replacement of Animals in Medical Experiments (FRAME)	www.frame.org.uk/
Fur Free Alliance	www.infurmation.com/
Dr Hadwen Trust	www.drhadwentrust.org.uk/
Handling Guidelines for auditing the welfare of cattle, pigs, and sheep at slaughter plants	www.grandin.com/ interpreting.ami.guidelines.html
Harvard University Center for the Environment	http://environment.harvard.edu/
Humane Learning	www.humanelearning.info
Humane Farming Association	www.hfa.org/
Humane Slaughter Association	www.hsa.org.uk/

The Humane Society of the United States	www.hsus.org/
Institute for Humane Education	http://humaneeducation.org/
International Animal Welfare Education (IN AWE)	www.animal-education.org
International Association of Human-Animal Interaction Organisations (IAHAIO)	www.iahao.org/
International Fund for Agricultural Development	www.ifad.org/
International Fund for Animal Welfare (IFAW)	www.ifaw.org/
The International Institute for Animal Law	www.animallawintl.org/
International Network for Humane Education	www.interniche.org/
International Primate Protection League (IPPL)	www.ippl.org/
International Veterinary Information Service	www.ivis.org
International Veterinary Students' Association (IVSA)	www.ivsa.org
International Wildlife Rehabilitation Council	www.iwrc-online.org/
IUCN Red List of Endangered Species	www.iucnredlist.org
Journal of International Wildlife Law & Policy	www.jiwlp.com/
The Latham Foundation	www.latham.org
League Against Cruel Sports (LACS)	www.league.org.uk/
Merck Veterinary Manual	www.merckvetmanual.com
National Animal Control Association	www.nacanet.org/
National Anti-Vivisection Society (NAVS)	www.navs.org.uk/

National Association for Humane and Environmental Education (now 'HSUS Youth')	www.nahee.org/	University of Bristol Animal Welfare Training (humane slaughter)	www.awtraining.com
National Council on Pet Population Study and Policy	www.petpopulation.org/	Universities Federation for Animal Welfare (UFAW)	www.ufaw.org.uk/
National Search and Rescue Dog Association	www.nsarda.org.uk/	USDA Animal Welfare Information Center (AWIC)	www.nal.usda.gov/awic/
NetVet Veterinary Resources	http://netvet.wustl.edu/	Utilitarian Ethics	www.utilitarian.net/singer
Organic farming	www.veeru.reading.ac.uk/organic/proc/proceedings.htm	Veterinary Education and Information links	http://vein.library.usyd.edu.au/index.html
DEFRA – Animal Health and Welfare Strategy for Great Britain	http://www.defra.gov.uk/animalhw/ahws/default.htm	Welfare Quality Project (EU)	www.welfarequality.net
Organic Research	www.organic-research.com/	What Price Cheap Food (British Society of Animal Science)	www.bsas.org.uk/meetings_&_workshops/past_meetings/past_meetings
People for the Ethical Treatment of Animals (PETA)	www.peta.org/	Whale and Dolphin Conservation Society (WDCS)	www.wdcs.org/
The Royal Society for the Prevention of Cruelty to Animals	www.rspca.org.uk/	World Animal Net	www.worldanimal.net
Showing Animals Respect and Kindness (SHARK)	www.sharkonline.org/	World Small Animal Veterinary Association (WSAVA)	www.wsava.org/
Animals & Society Institute	www.psyeta.org/	World Society for the Protection of Animals (WSPA)	www.wspa-international.org
Society for the Protection of Animals Abroad (SPANA)	www.spana.org/	World Trade Organisation (WTO)	www.wto.org/
Soil Association (Organic standards)	www.soilassociation.org/	World Veterinary Association	www.worldvet.org
Species Survival Network	www.ssn.org/	Worldwide Veterinary Services	www.wvs.org.uk
Teachkind	www.teachkind.com	WWF	www.panda.org/
Dr. Temple Grandin's website	www.grandin.com/	Zoocheck Canada	www.zoocheck.com/
TRAFFIC (Wildlife Trade Monitoring Network)	www.traffic.org/		

Notes

