Pathological findings in 66 wild European otters (Lutra lutra) in Scotland: 2007-2008

Adrian W Philbey

Division of Pathological Sciences, Faculty of Veterinary Medicine University of Glasgow, Glasgow G61 1QH, UK



Dominic McCafferty, Ruth Maclachlan
Department of Adult and Continuing Education
University of Glasgow, Glasgow G3 6NH, UK



Grace Yoxon, Paul Yoxon International Otter Survival Fund, Broadford, Isle of Skye IV49 9DE, UK



Glen Tyler Scottish Natural Heritage, Lerwick, Shetland ZE2 9PR



Jim Conroy
IUCN Otter Specialist Group
Celtic Environment, Torphins AB31 4JG, UK

63rd Annual Meeting of the Association of Veterinary Teaching and Research Work, Scarborough, England, 6-8 April 2009, p 34 (Abstract 56)

The Scottish Otter Mortality Study

Wild European (Eurasian) otters: Lutra lutra

- Located throughout Europe including UK
- Sentinel species: Top of their food chain
- Coastal and riverine environments
- Monitoring causes of mortality in wild otters is an important component of population studies to assess the conservation status of this species

The Scottish Otter Mortality Study

2007-2008: 66 Wild Otters

- Isle of Skye
- Shetland Islands
- Loch Lomond and the Trossachs National Park
- Other areas of mainland Scotland

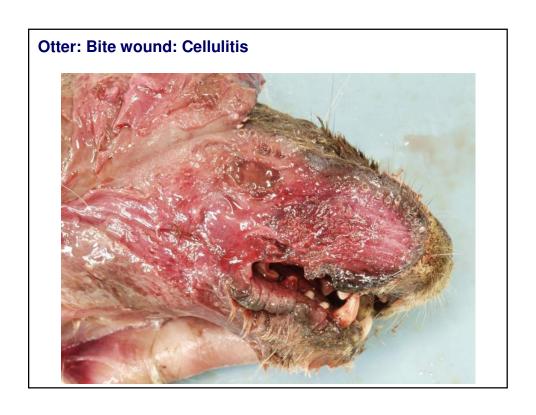
• Trauma		52
Motor vehicle accider	nts 51	
Gun shot wound	1	
 Septic infection of wound 	S	3
• Inanition		3
Ageing; Dental attrition	on	
 Aspiration pneumonia 		1
Accidental inhalation	of plant materia	I
 Undetermined 		3
	Total adults	62



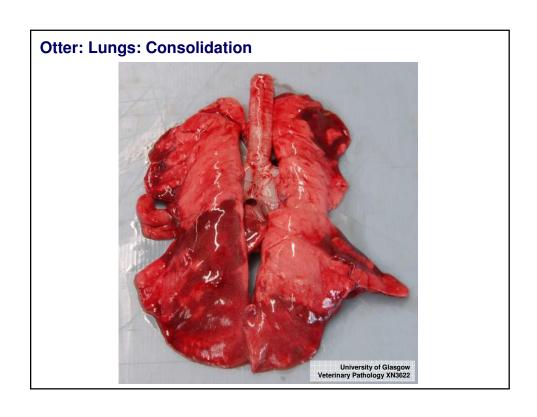


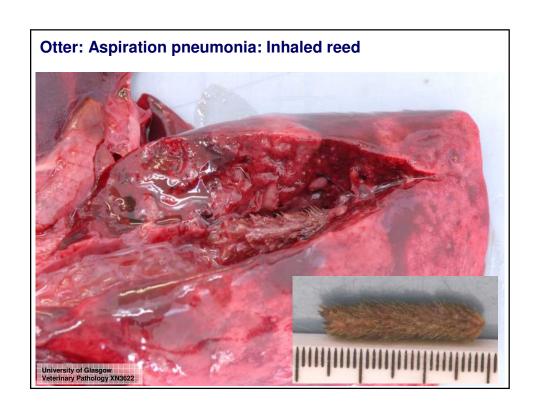


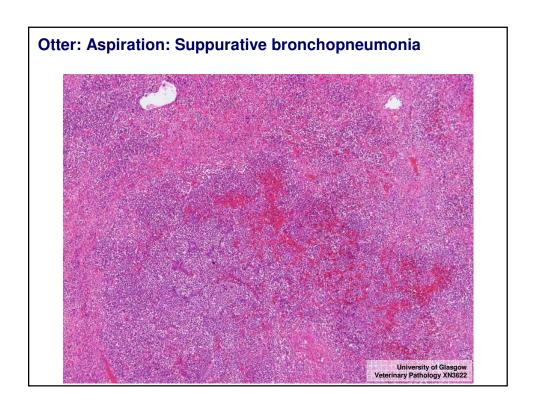












Causes of Death in Otter Cubs • Died in rescue centres 3 "Stressed otter syndrome" • Undetermined 1 Total cubs 4

"Stressed Otter Syndrome": Gastric haemorrhage



Pathology in Otters

Incidental findings

Healed fight wounds

• Foot lesions: Abrasions, Cuts

• Adiaspiromycosis: Pulmonary mycosis

Gastric nematodes



Infectious diseases

- Bile fluke
- Viral infections
 - Infectious canine hepatitis
- Bacterial infections
 - Brucella
 - Salmonella
 - Yersinia

Non-infectious diseases

- Urolithiasis?
 - Common in captive Asian short clawed otters
 - Appears to be rare in wild otters
- Anomalies of eye development?
 - Retinal dysplasia?



Collection of Samples

- Genetic analysis
- Pesticide residue analysis
- Stomach contents
- Intestinal contents
- Spleen
- Teeth

