





"RECENT APPROACHES IN MODELLING ANIMAL INFECTIOUS DISEASES"

Agenda

SEPTEMBER 28-30, 2010

INTERNATIONAL CENTRE FOR VETERINARY TRAINING AND INFORMATION (CIFIV) "F. GRAMENZI" TERAMO, ITALY







Introduction

Modelling animal infectious diseases is a useful tool for the decision making process. When correctly developed, epidemiological models may help Veterinary Services for control strategies evaluation, preparation of targeted contingency plans and for the prioritization of surveillance and control actions.

The workshop is an initiative of the OIE Collaborating Centre for veterinary training, epidemiology, food safety and animal welfare of Istituto "G. Caporale", Teramo (Italy) in collaboration with the OIE Collaborating Centre for animal diseases, surveillance systems, risk analysis and epidemiological modelling, Centers for epidemiology and animal health, (USDA-APHIS-VS-CEAH), Fort Collins, USA.

Objectives

The main objectives of the workshop are:

- to evaluate the state of art on the current application of models;
- to describe the latest approaches in modelling animal infectious diseases types of models which are being considered;
- to discuss about some examples of possible advantages for the Veterinary Services deriving from modelling animal infectious diseases;
- to discuss how to present outputs of models to decision-makers;
- to discuss data gaps in modelling animal infectious diseases.

Dates and workshop venue

September, 28th - 30th 2010, International Centre for Veterinary Training and Information (CIFIV) "F. Gramenzi" of Istituto "G. Caporale", Teramo, Italy.







Date and location	Time	Tutor	Activity		
	09,00	Secretariat	Participants registration		
	Session I (Presentations) "Introduction"				
	09,15	V Caparala	Welcome address		
	09,15	V. Caporale R. Lelli	Introduction to the workshop		
	09,30	S. Weber	Use of epidemiological models for the		
		K. Forde-Folle	management of animal diseases		
	10,15	S. Weber	The surveillance of animal diseases		
		A. Giovannini	and the development of epidemiological models		
			epideriiological models		
	11,00		Coffee break		
	Session II.a (Presentations) "Modelling experiences"				
	11,30	C. Poletto	Swine flu model		
28 September 2010 CIFIV	12,00	T. Carpenter	Modelling wildlife/livestock disease transmission		
	12,30	B. Martinez-Lopez	Social Network analysis		
	13,00	Lunch			
	14,00	L. Holmstrom	Disease spread in feral swine		
			populations: addressing gaps in knowledge and modelling		
	14,30	V. Guberti	approaches The use of models for the surveillance		
	.,		and management of infectious		
			diseases in wildlife: the example of CSF in wild boars and AIV in dabbling ducks		
	15,00	K. Forde-Folle	Using models to develop estimates of the number of FMD vaccine doses needed in the event of an outbreak		
	15,30		Coffee break		
	16,00	S. Weber	Model on Tb transmission		
	16,30	J. Hofherr	On farm mortality for early detection		
	17.00		of emerging diseases		
	17,00	F. Natale L. Savini	EpiTrace: a tool for emergency management		
	17.30	L. JAVIIII	End of the training day		
	17.30	<u>-</u>	Lind of the training day		







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Date and location	Time	Tutor	Activity	
	Session II.b (Presentations) "Ongoing projects on modelling"			
	09,00	P. Calistri F. Natale	Models based on movement networks. Italian experiences	
	09,30	A. Reeves	Versioning, stability, verification, and validation of NAADSM	
	10,00	K. Forde-Folle	Modelling the interfaces between livestock, vectors, wildlife and people – Results of three consultative reports	
	10,30		Coffee break	
	Working group I Validation and documentation of models			
29 September 2010 CIFIV			Activities that have been employed to validate and verify models	
3	11,00-13,00	Items to be discussed	Documentation recommended for supporting the scientific basis of the model	
			 Issues that have been identified in development and application of models, which need to be addressed and possible collaborative efforts to resolve issues 	
	13,00	Lunch		
	14,00		Working group I outcomes: presentation in plenary session	







Date and location	Time	Tutor	Activity	
	Session III (Presentations) "Advantages of the use of epidemiological models in disease control and eradication"			
	14,30	A. Giovannini	Use of epidemiological models to design surveillance	
	15,00	K. Forde-Folle	Application of Modelling in Animal Health Policy - Course Outline prepared by the QUADS EpiTeam	
	15,30	Coffee break		
29	16,00	S. Weber	Take advantages from models:	
September 2010			setting better targeted surveillance actions	
CIFIV		Working	g group II	
	Next generation of models and potential for collaborations			
	16,30- 17,30	Items to be discussed	New approaches to modelling animal infectious diseases – where are we going?	
	17,30	-	End of the training day	







Date and location	Time	Tutor	Activity		
	Working group II				
	Next generation of models and potential for collaborations				
	09,00-10,00	Items to be discussed	Data gaps for current models and next generation models and identify potential projects to address these gaps - how do we get to where we want to be?		
	10,00	Working group II outcomes:			
	10.00	presentation in plenary session			
	10,30	Working	Coffee break		
	Working group III Training and dissemination				
30 September 2010 CIFIV	11,00-13,00	Items to be discussed	 Develop agenda for course to be taught to decision makers on application of models and interpretation of results Current status of articles requested for OIE publication Current status of Lexicon of modelling terms Value of training next generation of disease spread modellers Current status of parameter library and scenario bank Potential course on network analysis and network modelling? 		
	13,00	Working group III outcomes:			
	13,30	present -	ation in plenary session Conclusions and end of the training		
	13,50		day		
	13,45		Lunch		
	14,30	Departure to the International Airport			