

PROJECT REVIEW

NAME:	Thomas Eley	Full Time	Year 2
INSTITUTE:	Royal Veterinary College		
TITLE:	Resident in Production Animal Pathology with Porcine Specialisation		

AIMS & OBJECTIVES:

To develop expertise in anatomic pathology (post mortem and histopathology) with special focus on production animal and especially porcine pathology, in order to gain specialist qualifications. To undertake a research project to develop research expertise in an aspect of porcine pathology.

KEY MILESTONES:

	TARGET DATE:	ACHIEVED DATE:
Competence in gross post mortem examination	January 15	January 15
Competence in microscopic examination of biopsy and post mortem sections	January 16	
Complete research project	May 17	
Complete Masters in Veterinary Medicine	July 17	
Sit part 1 examination of the Royal College of Pathologists	September 15	September 15
Sit phase 1 examination of American College of Veterinary Pathologists	March 16	

KEY ACHIEVEMENTS:

In the last year, I have developed diagnostic pathology skills by undertaking over 100 post mortem examinations (necropsy and histopathological review); spending 2 weeks at the SAC centre in Edinburgh, focussing on porcine pathology and 1 week per month on the surgical biopsy service at the RVC. I have undertaken formal training by passing 10 of the 11 assessment modules for the Masters in Veterinary Medicine; attending the CL Davis gross pathology course in Tennessee and attending regular slide review sessions reviewing cases from the U.S. Joint Pathology Centre, farm animal cases, and a range of slides from other disciplines. I attended the ESPHM/ECPHM Symposium in Nantes and the Pig Veterinary Society spring and autumn meetings. I contributed pathological expertise to a study investigating the efficacy of an oral, yeast derived PCV2 vaccine. I am currently working on a study investigating the pathogenesis of PCV2 at the early stages of infection. I sat the part 1 examination for the Royal College of Pathologists in September, in Veterinary Pathology, (ruminants and pigs). I am a co-author of two peer reviewed publications: Patterson, R., et al., *Oral application of freeze-dried yeast particles expressing the PCV2b Cap protein on their surface induce protection to subsequent PCV2b challenge in vivo* Vaccine, 2015 and Hamzianpour, N., et al., *Magnetic Resonance Imaging Findings in a Dog with Sensory Neuronopathy* J Vet Intern Med. 2015 29 (5):1381-6

BENEFIT TO LEVY PAYERS:

Expertise in pathology is a key for research and effective disease monitoring in the pig industry. This year I have provided the pathological input to two in vivo trials investigating PCV2. I have been involved with pathological investigation of a wide range of farm level disease outbreaks, including investigation of reproductive losses by histopathological examination of reproductive tracts and investigation of outbreaks of respiratory disease.

SUPERVISOR(S): Dr Henry Martineau & Professor Ken Smith	FUNDERS: AHDB Pork and Boehringer Ingelheim	DATED: 20/10/15
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