



AUSTRALIAN AND NEW ZEALAND COLLEGE OF VETERINARY SCIENTISTS

MEMBERSHIP GUIDELINES

Medicine of Pigs

INTRODUCTION

These Membership Guidelines should be read in conjunction with the *Membership Candidate Handbook*.

ELIGIBILITY

Refer to Section 2 of the *Membership Candidate Handbook*.

OBJECTIVES

To demonstrate that the candidate has sufficient knowledge of and experience in Medicine of Pigs to be able to give sound advice to colleagues on problems and procedures commonly encountered in this field of general veterinary practice.

LEARNING OUTCOMES

1. To demonstrate that the candidate has **sound¹ knowledge** of:
 - 1.1. the structure and the issues facing the pig industry in Australia and New Zealand

¹ **Knowledge levels:**

Detailed knowledge — candidates must be able to demonstrate an in-depth knowledge of the topic including differing points of view and published literature. The highest level of knowledge.

Sound knowledge — candidate must know all of the principles of the topic including some of the finer detail, and be able to identify areas where opinions may diverge. A middle level of knowledge.

Basic knowledge — candidate must know the main points of the topic and the core literature

- 1.2. the aetiology, epidemiology, pathology, diagnosis, treatment and control measures for diseases (both infectious and non-infectious) of pigs
2. The candidate will have a **basic knowledge** of:
 - 2.1. the law relating to the role of the veterinarian in the pig industry
 - 2.2. the exotic diseases of pigs which could be introduced to Australia and New Zealand
3. The candidate will be able to do the following with **sound² expertise**:
 - 3.1. procedures associated with the practice of pig medicine such as:

post mortem examinations, pregnancy diagnosis, back fat measures, artificial breeding techniques and so on,
 - 3.2. advising farmers and colleagues on management, breeding, and feeding as they relate to the health and productivity of pig herds.
 - 3.3. demonstrate awareness of the current issues affecting the pig industry, and be able to explain these issues to colleagues who have less involvement with pigs. Examples of such issues are intensive housing and its effects on animal welfare and the effect of using antibiotics in livestock on human health.
 - 3.4. interpret clinical and clinicopathologic images, laboratory test results, radiographs and basic ultrasound images relevant to Medicine of Pigs.

EXAMINATIONS

For information on the required standard and format for both the Written and Practical/oral examinations, candidates are referred to Sections 3, 10 and 11 of the *Membership Candidate Handbook*.

Written Paper I (duration: 2 hours with 15 minutes perusal time):

This paper is designed to test the candidate's knowledge of the principles of Medicine of Pigs as described in the Learning Outcomes. It will cover current issues of veterinary significance affecting the industry, for example, residues and so on; principles of

² Skill levels:

Detailed expertise — the candidate must be able to perform the technique with a high degree of skill, and have extensive experience in its application. The highest level of proficiency.

Sound expertise — the candidate must be able to perform the technique with a moderate degree of skill, and have moderate experience in its application. A middle level of proficiency.

Basic expertise — the candidate must be able to perform the technique competently in uncomplicated circumstances

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production; and principles of epidemiology, pathogenesis, treatment and prevention of diseases of pigs (e.g. pathophysiology of diarrhoea).

Written Paper II (duration: 2 hours with 15 minutes perusal time):

This paper is designed to (a) test the candidate's ability to apply the principles of Medicine of Pigs to particular cases/problems or tasks and (b) test the candidate's familiarity with the current practices and issues that arise from activities within the discipline of Medicine of Pigs in Australia and New Zealand. This paper will cover specific diseases in pigs presented as problem solving exercises (e.g. investigation of diarrhoea in growing pigs). There may also be short questions requiring detailed knowledge of disease entities.

Practical/Oral Examination:

This examination requires the candidate to demonstrate achievement of the Learning Outcomes listed earlier. The time allowed for this examination is forty five minutes to one hour. Clinical and clinicopathologic images, laboratory test results, radiographs and basic ultrasound images are likely to be used during this examination.

RECOMMENDED READING MATERIAL

The candidate is expected to research the depth and breadth of the knowledge of the discipline. This list is intended to guide the candidate to some core references and source material. The list is not comprehensive and is not intended as an indicator of the content of the examination.

Textbooks

Core Textbook:

Straw BE, Zimmerman JJ, D'Allaire S & Taylor DJ. *Diseases of swine*. 9th edn. Blackwell.

Other Textbooks:

Varley MA & Wiseman J, editors. *The weaner pig: nutrition and management*. CABI Publishing, 2001.

Verstegen MWA, Moughan PJ & J.W. Schrama JW, editors. *The lactating sow*. Wageningen Academic Publishers, 1998.

Harris DL. Multi-site pig production. Iowa State University Press/Wiley, 2000.

Rushton J. *The economics of animal health & production*. CABI International, 2009.

Whittemore CT & Kyriazakis I., editors. *Whittemore's science and practice of pig production*. 3rd edn. Wiley-Blackwell, 2006.

Richert, B. *2010 Pork Industry Handbook*. Purdue University, 2010.

Buddle JR. *Differential diagnosis of diseases of pigs*, University of Sydney Post Graduate Foundation in Veterinary Science.

Muirhead MR & Alexander JL. *Managing pig health and the treatment of disease*. 5M Enterprises Limited, 1999.

Cameron RDA. *Skin diseases of the pig*, Review No. 23, University of Sydney Post Graduate Foundation in Veterinary Science, 1984.

Fraser D. *Understanding animal welfare: the science in its cultural context*. Wiley-Blackwell, 2008.

Lewis, AJ & Southern LL, editors. *Swine nutrition*. 2nd edn. CRC Press.

Journals

Annual Proceedings of AASV Meeting (2000–current)

Australian Veterinary Journal

IPVS Proceedings Meeting 15–21

Proceedings of Allen D. Leman Swine Conference (vol. 27–current)

Proceedings of the Australian Association of Pig Veterinarians 1991–2006

Swine Health and Production (vol. 8–current)

The Pig Veterinary Society Proceedings, United Kingdom (vol. 45–current)

FURTHER INFORMATION

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