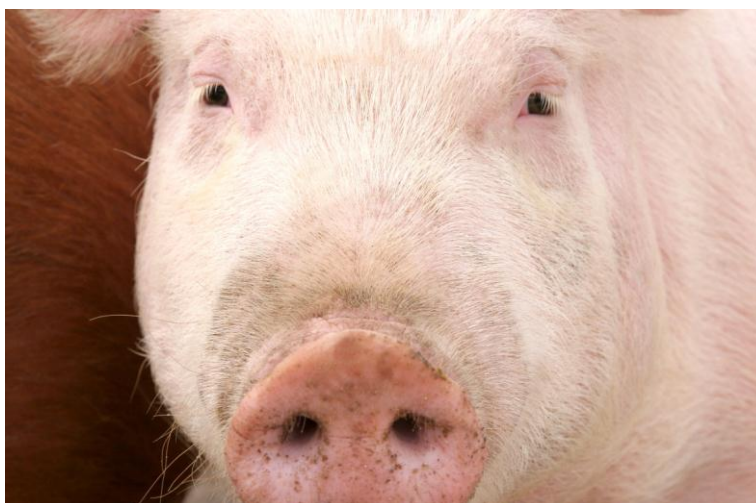


Certificate in Advanced Veterinary Practice

C-P.1 Reproductive Management of Pigs

Module Outline



Module Leader: Dr Mandy Nevel BSc BVetMed PhD MRCVS

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GUIDANCE FOR THIS MODULE

This module can be taken as a free-standing module, or as part of the Certificate in Advanced Veterinary Practice.

Candidates working towards the designated Certificate in Advanced Veterinary Practice (Pigs) will need to complete A-PKS.1 Professional Key Skills module, B-CKS.0 Clinical Key Skills, B-PAP.2 Production Animal Practice in the context of pigs, and the three C-P modules.

LEARNING OBJECTIVES

Candidates should have a sound grounding in the areas of practice listed below.

- To gain a sound understanding of the principles of reproduction obstetrics, parturition and breeding herd management.
- To demonstrate the role of the veterinarian in optimizing herd productivity through diagnosing, preventing and controlling reproductive management issues.

They also need to develop the skills needed to create case studies that demonstrate the following competencies:

- The written communication skills required to present case studies
- An ability to demonstrate their competence in observation, data collection, analysis, reasoning, decision-making and advice delivery in the area under discussion
- Reflective skills that enable them to understand the issues raised by the case and their practice more generally, what they learnt from it.

LEARNING TOPICS

- Basic Principles and Key Performance Indicators
 - Anatomy and physiology of reproduction

- Targets for breeding herds: data collection and use.
- Management of Conception
 - Sow management for efficient conception: nutrition, stimulation.
 - Optimising efficiency of artificial insemination (AI).
 - Natural service
 - Trouble shooting poor conception rates.
- Boar Management
 - Housing and management
 - Boar studs
 - AI collection, evaluation, storage and use of semen.
 - Vasectomy procedure.
- Pregnancy Management
 - Pregnancy detection
 - Sow management through pregnancy: nutrition, vaccination
- Parturition
 - Farrowing systems
 - Sow management pre-, peri-, post-farrowing.
 - Common problems, interventions, and medications.
- Neonatal Piglet Management
 - Robust and viable litters
 - Maximising colostrum intake

- Common procedures for neonatal pigs.
- Replacement Gilt Management
 - Herd parity management
 - Key aspects of gilt acclimatization
 - Maximising gilt fertility.

ASSESSMENT

1. A **learning diary/case log**, that documents in note form the candidate's experiences over the period that the module is being completed, including critical commentaries upon at least some of the learning resources used, and describes the application of the learning process to a wide range of cases encountered in practice.
2. A **casebook of two cases, 1,750 -2,000 words in length each**. These cases should be selected from the learning diary to demonstrate the candidate's ability to use the skills that have been acquired to cope with a challenging situation and should cover the main areas of the module. The cases should illustrate that the candidate has dealt competently with a range of commonly presented conditions or situations from the area of practice in which they are working. The candidate should have managed or have had a significant involvement in all of the cases.
3. A **1,000 - 1,500 word reflective synopsis** justifying the candidate's choice of cases and reflecting upon the candidate's learning during the module. This might include what has changed in their approach to a case, any new procedures or investigations that are now considered, any additional reading which was helpful, and/or any unexpected features of a case which will influence decision making in the future. This essay should only be submitted after all case reports/essays are assessed and returned to the candidate as it is possible that the assessor feedback from the case reports/essays may contribute to the candidate's learning through the module.
4. In addition one of the following assessments* must be selected:
 - a. A **1500 word critical review** of a peer reviewed article on an aspect of pig medicine. Review articles themselves should not be selected for review.
 - b. A (short) **research project/on farm trial** that should be written up as a short communication and should not exceed **1500 words**
 - c. A **short (10-15 minute) presentation** prepared for and delivered at a national/international meeting e.g. Pig Veterinary Society Meetings. The forum selected for presentation should be agreed with the module leader before selecting this option.

* where the three pig C- modules have been selected for completion, the full range of skills (i.e. completing the different assessment methods) should be demonstrated across the three modules.

Cases can be collected from up to 12 months before the date of enrolment on the CertAVP programme, where the candidate should have managed or have had a significant involvement in all of the cases. Where a paper is selected for review, it should be a maximum of 2 years old at the time of submission of the assessment.

Any material presented for this module may be incorporated into the synoptic assessment required for the final certificate.

LEARNING SUPPORT ACTIVITIES

Facilities to be made available through the Virtual Learning Environment:

List of relevant reading material

Paper a month to be posted by Module Leader

ANNUAL ASSESSMENT TIMETABLE

1st February	If you are submitting work for assessment on the following dates, please inform CertAVP Admin Manager by this date
1st March	<p>Learning diary/casebook.</p> <p>Reflective synopsis (only to be submitted once the casebook is assessed)</p> <p>Critical review/on-farm trial/presentation</p> <p>Work submitted after the deadline will not be marked until the following assessment date.</p>
1st June	Candidates will be informed of the outcome/marks of their submitted work
1st September	<p>Learning diary/casebook.</p> <p>Reflective synopsis (only to be submitted once the casebook is assessed)</p> <p>Critical review/on-farm trial/presentation</p> <p>Work submitted after the deadline will not be marked until the following assessment date.</p>
1st December	Candidates will be informed of the outcome/marks of their submitted work

INSTRUCTIONS FOR SUBMITTING CASE REPORTS / REFLECTIVE SYNOPSIS / CASE DIARIES

The case report should be written in the third person in a style suitable for publication in a Journal (for example Pig Journal).

The following frame work should be used as a guide to the structure of the case report:

- Unit summary (size, type, location indoor/outdoor etc.)
- Relevant history/medications/vaccinations
- Summary of situation
- Diagnostics
- Treatment
- Response
- Impact on farm of disease and intervention/economics?
- Discussion (this should comprise 35-40% of case report)
 - Students should show the limitations of the case (i.e. insufficient sampling) and to discuss the differential diagnoses, how the disease developed, basic epidemiology, its financial impact, and ethical and welfare implications. Where appropriate they should include a justification of 'pragmatic' advice rather than the 'text-book answers.
- References

INSTRUCTIONS FOR SUBMITTING CASE REPORTS / REFLECTIVE SYNOPSIS / CASE DIARIES

Please ensure that at the beginning of your case reports/synopsis is included:

- Your candidate number (to be given to you by the CertAVP office)
- Module name
- Case report/synopsis title
- Word count (excluding the above, tables, photo titles and references)

Please remove your name from any laboratory reports or other documents which are included in your submission to ensure anonymity.

Please submit your case report/synopsis as a

- MS Word document (97-2003 format or later)*

(Please ensure digital images are submitted in a **compressed** format so that they can be easily transferred via e-mail)

and your case diary as a

- MS Excel spreadsheet (97-2003 format or later)*

attached to an e-mail and send it to: certavp@rvc.ac.uk

The preferred way of naming your file is module code, your name, and the type of work you are submitting, for example, **C-P.1 Candidate 6 - Case Diary.xls** or **C-P.1 Candidate 6 - Case Report 1.doc**.

* Please note that as case reports / synopsis / case diaries in alternative formats have been unreadable in MS Word, any other format will be sent back to the candidate.

RECOMMENDED READING LIST

Books

- Diseases of Swine (2012) eds. Zimmerman J., Karriker, L., Ramirez A., Schwartz K. and Stevenson G. (10th edition)
- Pig Diseases (2006) Taylor D.J. (8th edition)
- Handbook of Pig Medicine (2007) Jackson P.G.G. and Cockcroft P.D.
- Pathology of the Pig – a Diagnostic Guide (1996) Sims L.D. and Glastonbury J.R.W.
- The Appliance of Pig Science (2004) eds. Thompson J.E., Gill B.P. and Varley M.A.
- Controlled Reproduction in Pigs (1996) Gordon I.
- Whittemore's Science and Practice of Pig Production (2006) eds. Kyriazakis I., Whittemore C. (3rd edition)
- Genetics of the Pig (2011) eds. Rothschild M.F. and Ruvinsky A.
- Control Of Pig Reproduction VIII (2009) eds. Rodriquez-Martinez H., Vallet J.L. and Ziecic A.J.

Journals

- The Pig Journal
- Veterinary Record
- Animal (journal of the BSAS)

Websites

- Pig Progress: <http://www.pigprogress.net/>
- All about feed: <http://www.allaboutfeed.net/>
- Pigsite: <http://www.thepigsite.com/>
- Promed: <http://www.promedmail.org/>
- BPEX: www.bpex.org/

Marking Regulations

1. Course:	RCVS – Certificate of Advanced Veterinary Practice
2. Section:	C Module Reproductive Management of Pigs (C-P.1)
3. Applicable to Academic Year:	2012/13 onwards
4. Aspects of course covered by Examination:	All areas studied during the module
5. Requirement to be completed to permit entry to the examination:	<ol style="list-style-type: none"> 1. Appropriate enrolment to the C module. 2. Candidates are advised that they should achieve a pass grade in the Module B-PAP.1
6. Form of Examination:	<ol style="list-style-type: none"> i) a learning diary/case log ii) a casebook of two cases (1,750 -2,000 words each), iii) a reflective synopsis (1,000 - 1,500 words) justifying the candidate's choice of cases and reflecting upon the candidate's learning during the module iv) one of the following assessments (where the three pig C- modules have been selected for completion, the full range of skills (i.e. completing the different assessment methods) should be demonstrated across the three modules): <ol style="list-style-type: none"> a. critical review of a peer reviewed article (1500 word) b. (short) research project/on farm trial that should be written up as a short communication (1500 words) c. short (10-15 minute) presentation prepared for and delivered at a national/international meeting
7. Marking Criteria:	<ol style="list-style-type: none"> 1. Case books, synopsis, critical review, research communication, presentation - The RVC common 17 point marking scheme applied at the post graduate (Masters) level. 2. Learning diary/case log - approval of appropriate timeline and content as described in course literature
8. Allocation of Marks and any additional requirements	Each case report or essay is equally weighted
9. Requirements to Pass Overall and Progress to the Next Stage	<p>Work must be submitted and assessed within the 10 year registration period, or if enrolled after 1st July 2010, within the 2 year registration period.</p> <p>First Submission</p> <p>Approval of the learning diary</p> <p>50% or greater in the grading of the reflective synopsis</p> <p>50% or greater in the grading of each case report</p> <p>50% or greater in the chosen additional assessment</p>

Re-submission

Sections graded below 50% in the first submission are re-graded on re-submission and the following criteria must be reached taking that new grading into account:

Approval of the learning diary

50% or greater in the grading of the reflective synopsis

50% or greater in the grading of the each case report

50% or greater in the chosen additional assessment

10. Consequences of Failure

1. A candidate who fails at their first submission will be required to re-submit or re-sit the sections they have failed in the next or a future assessment cycle, or withdraw from the Certificate.

2. A candidate who does not meet the requirements to pass overall after taking all the allowed opportunities to resubmit their work will normally be required to relinquish the course of study but s/he will have the right of appeal as described in the College Regulations.

3. Should a candidate successfully appeal to be re-admitted to the Certificate they would normally have to repeat the entire module with new case material and would incur a further assessment fee.

11. Classification

The examination is only classified as a Pass or a Fail. Candidates that pass the examination will be allocated 10 credits in the CertAVP structure and the RCVS will be appropriately informed.

12. Disclosure of Marks

Candidates will be advised of their marks by email and they can request a letter confirmation

13. Late submission of work

Work that is submitted after the deadline cannot be accepted for grading in that cycle. Work may stay on file for grading at the next submission date or the candidate may re-submit before that date