Prifysgol **Wrecsam**
Wrexham University

Module specification

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Module Code	VEN501
Module Title	Anaesthesia and Surgical Nursing Practice
Level	5
Credit value	20
Faculty	FSLS
HECoS Code	100532
Cost Code	GAAN
Pre-requisite module	N/A

Programmes in which module to be offered

Programme title	Core/Optional/Standalone
Foundation degree (FdSc) Veterinary Nursing	Core

Breakdown of module hours

Learning and teaching hours	30 hrs
Placement tutor support hours	0 hrs
Supervised learning hours e.g. practical classes, workshops	0 hrs
Project supervision hours	0 hrs
Active learning and teaching hours total	**30** hrs
Placement hours	0 hrs
Guided independent study hours	170 hrs
Module duration (Total hours)	200 hrs

Module aims

Registered veterinary nurses play an essential role within the surgical environment.

Theatre nurses will prepare the theatre, equipment and patients for aseptic surgery and often will assist the veterinary surgeon at the surgical site. The role of monitoring and maintaining the patient under anaesthetic is also in the nurses domain, under the veterinary surgeon's direction.

This module will cover all aspects of surgical nursing and anaesthesia, from preparation of patient through to the recovery. Students will be able to apply theoretical concepts in their

placements, during anaesthesia and surgical rotations. Knowledge gained from the physiology module will assist in their learning of anaesthesia physiology. The principles of analgesics will be covered in this module and linked to improved patient outcomes.

* range of species in addition to cats and dogs holders of veterinary nursing degrees should be competent in providing nursing care to animals that are commonly kept as pets in the UK.
This will include rabbits, small mammals and appropriate species of reptiles and birds.
In addition to the above animals, a level of basic knowledge and competence in the husbandry and nursing care of horses, endemic UK wildlife and exotic species not commonly seen in the UK
https://www.qaa.ac.uk/the-quality-code/subject-benchmark-statements/subject-benchmark-statement-veterinary-nursing

Module Learning Outcomes

At the end of this module, students will be able to:

1	Assess the different types of anaesthetics and analgesics commonly used in practice.
2	Evaluate the anaesthetic equipment and devices in the delivery and monitoring of a balanced anaesthesia.
3	Examine the role of the surgical veterinary nurse.
4	Review the general principles of perioperative patient care.

RCVS Standards	Day One Competencies (DOC)	Day One Skills (DOS)
Learning outcomes for this module are mapped to the following RCVS day one competences (DOC) and day one skills (DOS)	30, 31, 32, 33, 3	9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 9.11, 9.12. 10.1, 10.2, 10.3, 10.4, 10.5, 10.6.

External Reference points

QAA Subject Benchmark Statement for Veterinary Nursing: https://www.qaa.ac.uk/the-quality-code/subject-benchmark-statements/subject-benchmark-statement-veterinary-nursing

RCVS Fitness to Practise Guide: https://www.rcvs.org.uk/news-and-views/publications/fitness-to-practise-a-guide-for-uk-providers-of-veterinary/?destination=%2Fnews-and-views/publications%2F

RCVS Day One Skills for Veterinary Nurses: https://www.rcvs.org.uk/document-library/rcvs-day-one-skills-for-veterinary-nurses/

RCVS Day One Competences for Veterinary Nurses: https://www.rcvs.org.uk/document-library/day-one-competences-for-veterinary-nurses/

RCVS Code of Professional Conduct for Veterinary Nurses: https://www.rcvs.org.uk/document-library/code-of-professional-conduct-for-veterinary-nurses/

Assessment

Indicative Assessment Tasks:
This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

Formative

Quizzes / sessions in clinical suite / peer review tasks. A range of modalities will be used by the tutor to provide feedback to students.

Summative

Assessment 1: Case history report

Assessment 2: In-class test, (unseen, MCQs, short answer questions and problem-solving questions)

Assessment number	Learning Outcomes to be met	Type of assessment	Duration/Word Count	Weighting (%)	Alternative assessment, if applicable
1	1, 4	Written Assignment	2000	50	NA
2	2, 3	In-class test	2 hours	50	NA

Derogations

This module is mapped to the RCVS Day One Competences (DOC) and Day One Skills (DOS). To gain a pass in this module a minimum mark of 40% must be achieved by the student in each summative assessment element.

Learning and Teaching Strategies

A range of learning and teaching strategies will be employed, and will focus on student centred teaching. Delivery of content will be conducted in the clinical suite to apply theory to practice. Teaching sessions will also be delivered in lecture rooms. The emphasis will be on active learning for each session delivered.

The clinical suite will be used by the students to develop their practical skills which are linked to the RCVS Day One Skills list.

Welsh Elements

Elements of the Welsh language and culture will be embedded throughout the module where possible.

Indicative Syllabus Outline

Learning outcome 1
Aims of anaesthesia and analgesia / / legal and ethical implications / environmental considerations / pre-anaesthetic medication and sedation / commonly used protocols / calculations / patient groups that impact decisions / ASA scale / Injectable anaesthetics / neuroleptanalgesia / total intravenous anaesthesia / partial intravenous anaesthesia / balanced anaesthesia / Inhalant anaesthetic agents / neuromuscular blocking agents / local anaesthetics / physiology factors to consider / veterinary medicines and controlled drugs.

Learning outcome 2
Principles of the anaesthetic machine and vaporizers / cylinders; identification / storage / valves / pin index system / oxygen systems / flowmeters / classification of vaporizers / breathing systems / care and maintenance / AVA daily check lists / problems associated with breathing systems / endotracheal tubes / alternative airway devices / induction chambers / scavenging systems / humidifiers / automatic ventilators / IPPV / patient monitoring; sense and device monitoring / flow rate calculations / anaesthetic charts and documentation

Learning outcome 3
The theatre environment / prep-room / operating theatre / scrub room / recovery room / theatre cleaning protocol / operating list / surgical wear / gloving and gowning / roles of the scrubbed and circulating nurse / Health and safety considerations / instrumentation; common instruments used in practice / specialised instrumentation / dental instrumentation / care and maintenance of instruments / asepsis and sterilisation / drapes / swabs / drains / suction / suturing and suture materials / patient preparation / intubation / nurses surgical procedures and Schedule 3 considerations.

Learning outcome 4
Principles of perioperative care / phases of perioperative nursing / care pathways / range of surgical conditions and required interventions / accurate monitoring and documentation / multidisciplinary approach / equipment required for different phases of perioperative care.

Indicative Bibliography

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads:

Cooper, B., Turner, L. and Mullineaux, E. (2020), *BSAVA Textbook of Veterinary Nursing*, 6th ed. Gloucester: British Small Animal Veterinary Association.

Dugdale, A.A., Beaumont, G. and Bradbrook, C. (2020), Veterinary Anaesthesia: Principles to Practice, 2nd ed. Wiley Blackwell.

Holzman, G. and Raffel, T. (2015), Surgical Patient Care for Veterinary Technicians and Nurses, Chichester: Wiley Blackwell.

Other indicative reading:

Aspinall, V. (2019), *Clinical Procedures in Veterinary Nursing*, 4th ed. Edinburgh: Elsevier.

Baines, S., Lipscomb, V. and Hutchinson, T. (eds.) (2010), *BSAVA Manual of Canine and Feline Surgical Principles: A Foundation Manual.* Gloucester: British Small Animal Veterinary Association.

Duke-Navakovski, T., de Vries, M. and Seymour, C. (eds.) (2016*), BSAVA Manual of Canine and Feline Anaesthesia and Analgesia*. 3rd ed. Gloucester: British Small Animal Veterinary Association.

Lake, T. and Green, N. (2017*), Essential Calculations for Veterinary Nurses and Technicians*. 3rd ed. St Louis: Elsevier.

Administrative Information