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Refer to guidance notes for completion of each section of the specification.

Module Code:	VEN501

Module Title:	Anaesthesia and Surgical Nursing Practice

Level:	5	Credit Value:	20

Cost Centre(s):	GAAN	JACS3 **code**: HECoS **code**:	D310 / 100532

Faculty	Social and Life Sciences	Module Leader:	TBC

Scheduled learning and teaching hours	30 hrs
Total contact hours	**30**hrs
Guided independent study	170 hrs
Module duration (total hours)	200 hrs

Programme(s) in which to be offered (not including exit awards)	Core	Option
Foundation degree (FdSc) Veterinary Nursing	✓	☐

Pre-requisites
None

Office use only	
Initial approval: 05/11/2019	Version no: 1
With effect from: 28/09/2020	
Date and details of revision:	Version no:

Updated September 2019

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
(QAA Subject benchmark statement, Veterinary Nursing, 2019).*

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.

Employability Skills The Wrexham Glyndŵr Graduate	I = included in module content A = included in module assessment N/A = not applicable
Guidance: complete the matrix to indicate which of the following are included in the module content and/or assessment in alignment with the matrix provided in the programme specification.	
CORE ATTRIBUTES	
Engaged	I
Creative	N/A
Enterprising	N/A
Ethical	I and A
KEY ATTITUDES	
Commitment	I and A
Curiosity	I and A
Resilient	I and A
Confidence	I
Adaptability	I
PRACTICAL SKILLSETS	
Digital fluency	I and A
Organisation	I and A
Leadership and team working	I
Critical thinking	I and A
Emotional intelligence	I
Communication	I

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

Assessment:			

Indicative Assessment Tasks:

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

Summative tasks:
Assessment 1: Case history report, (2000 words).
Assessment 2: Examination; (2 hours) MCQs, problem solving questions, short answer and long answer questions

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1 and 4	Report	50
2	2 and 3	In-class test	50

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.

Learning outcomes mapped to RCVS day one competences (DOC) and day one skills (DOS		
LO2/LO3	Assist the veterinary surgeon by preparing patients, equipment and materials for anaesthetic procedures	DOC 28
LO2/LO3	Assist in administering and maintaining anaesthesia to patients	DOC 29
LO3	Prepare the environment, equipment and patients for aseptic surgery	DOC 26
LO3	Assist the veterinary surgeon as a scrubbed nurse to perform surgical procedures on patients	DOC 27
LO1	Demonstrate knowledge of the organisation and legislation related to a veterinary business	DOC 3
LO4	Assess the patient's anaesthetic risks	DOS 10.1
LO3	Prepare for anaesthesia	DOS 10.2
LO4	Prepare patients for anaesthesia	DOS 10.3
LO2/LO3	Maintain and monitor the patient during the anaesthetic process	DOS 10.4
LO2/LO3	Complete anaesthetic monitoring records	DOS 10.5
LO4	Supervise recovery from anaesthesia	DOS 10.6
LO3	Check and clean surgical instruments	DOS 9.1
LO3	Prepare package and monitor the sterilisation of instruments and materials	DOS 9.2
LO2/LO3	Prepare the theatre for use based on equipment and procedure	DOS 9.3
LO3/LO4	Position patients appropriately on the operating table in accordance with the planned procedure taking into account patient condition	DOS 9.4
LO3/LO4	Prepare the surgical site appropriately for the procedure in accordance with veterinary surgeon's preference	DOS 9.5
LO3	Assist as circulating nurse	DOS 9.6

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LO3	Prepare hands and arms using appropriate method	DOS 9.7
LO3	Prepare for surgical assistance wearing appropriate attire	DOS 9.8
LO3	Put on surgical gloves (open gloving) in an aseptic manner to assist with sterile procedures	DOS 9.9
LO3/LO4	Maintain sterility of self and others during procedures	DOS 9.10
LO3	Assist with draping patient maintaining sterility	DOS 9.11
LO3	Monitor and record materials during surgery	DOS 9.12
LO3	Handle and pass instruments and equipment aseptically during surgery	DOS 9.13

Reference Points:

QAA Subject Benchmark Statement for Veterinary Nursing
https://www.qaa.ac.uk/docs/qaa/subject-benchmark-statements/subject-benchmark-statement-veterinary-nursing.pdf?sfvrsn=def3c881_4

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/

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:

Essential reading

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.