

**Veterinary Hospital Rotation**

Code: 102682  
ECTS Credits: 9

**2025/2026**

Degree	Type	Year
Veterinary Medicine	OB	5

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## Teaching groups languages

You can view this information at the [end](#) of this document.

## Prerequisites

Since this mandatory fifth year course is inclusive, it is required that the student has passed at least 210 ECTS to enroll in the Clinical HCV Rotation.

Likewise, it is recommended to have passed the mandatory subjects of the fourth year "Animal Medicine and Surgery of companion animals I", "Medicine and Animal Surgery of companion animals II", and "Medicine and Surgery of horses".

## Objectives and Contextualisation

The subject "Clinical HCV rotation" along with the "Public Health Rotation" are compulsory subjects within the subject "Practical Rotation" of the fifth year Veterinary course. The "Clinical HCV rotation" has an integrating and professional nature in the field of Veterinary Medicine.

The programmed activities and training objectives of the subject are aimed at introducing Bachelor of Veterinary students to the professional reality in the veterinary animal companion clinic, and to a lesser extent to exotic and equine clinical setting.

The training objectives of the subject are:

- To acquire the capabilities of solving clinical cases.
- To know the different fields and specialties of veterinary medicine in the species that are individually treated.
- To acquire the capacity for synthesis and exposure necessary to carry out the professional activity in the field of veterinary medicine.

This subject includes activities carried out in English, identified in this teaching guide as DA (Teaching in English). This English teaching will be performed in 3 of the 4 initial seminars; and the student will have the option to present cases in English in 2 of the cases seminars.

## Competences

- Analyse, synthesise and resolve problems and make decisions.
- Apply scientific method to professional practice, including medicine
- Apply the basic cures that guarantee the correct function of the reproduction cycle and the resolution of obstetric problems.
- Assess and undertake epidemiological studies and therapeutic and preventive programs in accordance with the standards of animal welfare, animal health and public health.
- Attend to emergencies and perform first aid in veterinary science.
- Collect, preserve and issue all types of samples with the corresponding report.

- Comunicar la informació obtinguda durant l'exercici professional de manera fluida, oralment i per escrit, amb altres col·legues, autoritats i la societat en general.
- Demonstrate knowledge and understanding of standards and laws in the veterinary field and regulations on animals and their trade.
- Demonstrate knowledge and understanding of structural and functional disorders of the animal organism.
- Demonstrate knowledge and understanding of the general bases of medical and surgical treatments.
- Demonstrate knowledge of the rights and duties of the veterinarian, with a special focus on ethical principles
- Diagnose different individual and collective animal diseases, and know about prevention measures, with emphasis on zoonoses and notifiable disease.
- Diagnose the most common diseases using different general and instrumental techniques.
- Have basic knowledge of the profession, and in particular of the organisation and functions of professional practice.
- Make clinical records and accurate and complete clinical exploration of animals.
- Perform basic analytical techniques and interpret the clinical, biological and chemical results, and interpret the results of tests generated by other laboratories.
- Perform the most common medical and surgical treatments of animals.
- Prescribe and dispense medicines correctly and responsibly in accordance with legislation, and ensure that the medicines and waste are stored and eliminated properly.
- Properly apply the principles of sterilisation of surgical equipment and the principles of surgical asepsis.
- Recognise ethical obligations in the exercise of responsibilities in terms of the profession and society.
- Recognise when euthanasia is necessary and perform it humanely by employing the appropriate method.
- Safely perform sedations and regional and general anaesthesia, and evaluate and control the pain.
- Treat and handle animals in a safe and humanitarian manner, and instruct other people to properly employ these techniques.

## Learning Outcomes

1. Analyse, synthesise and resolve problems and make decisions.
2. Apply any measures needed to restrain animals: protecting the veterinarian without causing them injury or stress, and be aware of the risks involved in handling animals.
3. Apply ethical values that govern the behavior of veterinarians in clinical practice in relations with other veterinarians.
4. Apply knowledge of pathophysiology applied to medical and surgical diseases during clinical discussions.
5. Apply methods of cardiopulmonary resuscitation in emergency conditions.
6. Apply scientific method to professional practice, including medicine
7. Apply specific knowledge of horse sedation to perform examinations.
8. Apply suitable euthanasia methods in small animals and equines.
9. Communicate information obtained during professional exercise in a fluid manner, orally and in writing, with other colleagues, authorities and society in general.
10. Complete basic inquiries in which the student makes a general clinical examination, applies the suitable diagnostic protocol, produces a diagnosis and recognises the correct treatment and prognosis in small animal and equines.
11. Conduct X-rays in the most common positions to obtain radiographic images of the most frequent pathological processes in the treatment of small animals and equines.
12. Correctly apply ethical values in decision-making on performing diagnostic procedures, medical or surgical treatments, or any clinical procedure, bearing in mind the rights of the animals and their owners.
13. Define the bases of complementary diagnostic techniques (MR, IMR, endoscopy...) and their indications
14. Define the problems found in the physical examination or clinical history of an animal, and produce a list of problems, differential diagnosis and diagnostic protocol.
15. Demonstrate knowledge of the etiology, etiopathogeny, diagnosis and treatment of the main medical and surgical diseases in small animals and equines being attended to at the Hospital Clínic Veterinari or to which reference is made during clinical discussions.

16. Describe the regulations on the sale of animals and the actions and responsibility of the veterinarian (pre and post purchase reports and examinations of equines, small animals and exotic animals).
17. Diagnose and solve obstetric and post-birth problems in small animals and equines.
18. Dispense and administer fluid and drugs to hospitalised animals.
19. Distinguish the limitations on the use and prescription of the most frequently used drugs in the medication and surgery of small animals and equines.
20. Distinguish the methods of hospital nutrition and methods of administration in small animals and equines.
21. Effectively help with surgical interventions.
22. Evaluate whether the concepts of asepsis-antisepsis, preparation of surgery and preparation of the surgical patient and the material and instruments to be used have integrated properly, along with their application to the operating theatre as well as the correct use and manipulation of surgical instruments.
23. Fill in forms applying for biopathological and histopathological analysis of samples from pets and equines.
24. Have basic knowledge of the profession, and in particular of the organisation and functions of professional practice.
25. Identify the conditions in which euthanasia is the only possible option, or the most suitable, in small animals and equines and appropriately propose this to the owners
26. Interpret control and surveillance systems in ICU, hospitalisation and surgery.
27. Interpret the results of basic diagnostic tests (analytical, X-rays, echographies, PCR, serology...) and conduct clinical discussions.
28. Make basic visits to young animals and foals and make suitable recommendations for vaccination and deworming.
29. Monitor animals during surgical and/or anaesthetic recovery.
30. Monitor animals post-operation.
31. Objectively evaluate pain in sick animals.
32. Obtain blood and urine samples from different animal species and process them for sending to the laboratory.
33. Perform complete protocolled physical examinations and detect any disorders.
34. Perform cytology, fixate and stain cells, understand the indications for carrying them out and defend the interpretations.
35. Perform hemograms and biochemical tests with emergency teams and defend the interpretation.
36. Perform pre-anaesthesia estimations of surgical patients.
37. Place endovenous catheters in small animals and equines.
38. Practise anaesthesia and sedations in simple cases, under the supervision of the responsible lecturer, in small animals and equines.
39. Practise basic procedures in emergency situations to stabilise critical animals.
40. Produce simple surgical reports and reports on diagnostic techniques performed on patients.
41. Properly apply the acquired knowledge on pain sedation and therapy.
42. Properly calculate dosages of the most common medicines applied to the medication and surgery of small animals and equines, and properly use vademecums.
43. Properly fill in medication and follow-up forms on hospitalised animals and be able to monitor their evolution.
44. Properly fill in reports with data on anamnesis and the results of clinical examinations.
45. Properly interpret X-rays and echographies of simple pathological processes in the treatment of small animals and equines.
46. Properly prepare animals for echographies and have a general idea of the positioning of the probe in the most frequent explorations of small animal and equines.
47. Properly use all measures of radiographic protection
48. Recognise personal limitations and know when to ask for professional advice and help.
49. Recognise the disorders that require urgent assistance (emergencies).
50. Recognise the moment when a case needs to be passed to a specialist for diagnosis and/or treatment.
51. Secure animals before examinations, treatment or sample taking, causing the minimum possible stress.
52. Treat simple wounds adequately (cleansing, debridement and additional cures) and know how to apply dressings.
53. Use anaesthesia and monitoring apparatus and know how to choose the suitable systems depending on the species and/or body weight.

54. Use knowledge of the identification, treatment and prevention of medical and surgical problems associated to the male and female reproduction apparatus in small animals and equines.

## Content

Introductory session on the subject (1h): description of the structure of the HCV Rotation and the evaluation system. 100% frontal teaching.

### PROGRAM OF SEMINARS (15h)

A. Introductory seminars prior to the practical clinical HCV rotation:

- Microscopy evaluation (2h; DA): Practical tips for blood smear examination and cytology.
- Prescription: how to emit and write them. "Guia del Medicament" (1h)
- Clinical biochemistry (2h; DA): structure, operation, basic equipment, biochemical parameters useful for the diagnosis and definition of profiles. The three phases of the analytical process: preanalytical, analytical phase and post-analytical phases.  
Identification of the critical points in each of the phases that can compromise the quality of the result.
- Ethology (2h): How to reduce stress during a visit to the veterinarian?
- Interpretation of routine laboratory testing-clinical cases (2h; DA): main patterns of the most common alterations in real cases, hematology, biochemistry and urinalysis.

B. Clinical case discussion seminars (3 hours): students (groups of 2-3 students) will do a brief oral presentation of one of the actual clinical cases in which they have actively participated.  
Students will have the option to present the case in English. See in the assessment the possible bonus for oral presentation in English (DA).

C. Seminars for discussion of cases related to ethics and legislation (1h): students (groups of 5-6 students) will do a brief oral presentation of one of the situations with clients and veterinarians who involve ethical dilemmas or situations in which current legislation must be consulted.

D. Seminar clinical pathology-mystery case (2h): a clinical case selected during clinical HCV rotation (groups of 2-3 students) will be worked on where the cytology or hematology (blood smears) have been used for the diagnosis.

These cases will be shared with the rest of the groups as mystery case. Students will have the option of presenting the written report of the case in English. See in the assessment the possible bonus to do the case in English.

E. Seminar on the interpretation of hematological and cytologic preparations (1h): students will hold a specialized seminar to discuss all the hematological and cytological preparations that students have evaluated previously independently during HCV clinical rotation.

All seminars will be taught with frontal teaching if the COVID situation permits.

### PROGRAM OF PRACTICAL CLINICAL ROTATION (142h)

Students will complete training during clinical rotation at HCV. Practical training is performed at HCV by 100% frontal teaching. Due to covid situation, if all hours of practical training are not possible to be performed, at least a minimum of 50% of practical training (71 hours) will be performed at HCV by 100% frontal teaching. The remaining hours will be performed by 100% NO frontal teaching by the different HCV services with clinical case studies.

All students will be trained for the same HCV services, which are detailed below:

- Surgery and post-surgery care and anesthesia
- General medicine consultations and internal medicine
- Equine medicine and surgery
- Imaging
- Emergency and critical care medicine / ICU
- Other specialities

## Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
1. Introductory session about HCV rotation	1	0.04	1
2. Seminar about microscopy evaluation	2	0.08	34, 35, 27
3. Seminar Clinical Biochemistry	2	0.08	35, 32
4. Seminar Clinical ethology	2	0.08	48
5. Seminar interpretation of routine laboratory tests	2	0.08	35, 27
6. Seminar clinical cases	3	0.12	1, 4, 6, 50, 48
7. Seminar of ethical cases and legislation	1	0.04	48
8. Practical microscope room of clinical pathology cases (mystery cases)	2	0.08	1, 4, 6, 9, 15, 34, 35, 27
9. Seminar on hematological and cytological preparations student room	1	0.04	34, 35, 27
Type: Supervised			
HCV rotation	142	5.68	21, 7, 42, 37, 10, 14, 13, 16, 17, 19, 18, 34, 35, 11, 28, 45, 43, 44, 38, 39, 46, 33, 40, 36, 50, 49, 51, 52, 47, 53, 54, 22
Type: Autonomous			
Preparation of clinical cases	8	0.32	1, 4, 6, 48
Study and self independent learning	58.2	2.33	21, 4, 7, 42, 37, 10, 14, 13, 16, 17, 19, 18, 34, 35, 11, 28, 45, 43, 44, 38, 39, 46, 33, 40, 36, 50, 49, 51, 52, 47, 53, 54, 22

- The method of teaching-learning of the students in this subject is SUPERVISED for professors and high-level collaborators with the assistance of the Fundació Hospital Clínic Veterinari (senior veterinarians, residents and interns).

- The clinical practical rotation will be programmed at HCV in which each student will complete hospital procedures in all services previously described.

- The clinical rotation is performed in the facilities of HCV.

- The training activities consist of:

- 1) Introduction to the organization and evaluation of the subject

- 2) Four introductory seminars:

- 2.1) Microscopy evaluation (practical aspects of hematology and cytology): 2h

- 2.2) Clinical Biochemistry: 2h

- 2.3) Ethology: 2h

- 2.4) Basic analytical interpretation: 2h

- 3) Practical clinical rotation: all students will go through the same services

- 4) independent study and self-learning or peer learning in veterinary clinical pathology performed during the HCV rotation: observation of hematological and cytological cases in a microscope that they have available in the room of Students of the HCV with a Wi-Fi camera to be able to see the preparations.

- 5) Four seminars of clinical cases:

- 5.1) Discussion seminars on clinical cases: it consists of public exhibitions in groups of 2-3 students to describe a case in which they have participated, and allow discussion and resolution of doubts with the entire group.

There will be two sessions of 1.5h each one.

- 5.2) Seminar discussion of cases related to ethics and legislation (1h): students (groups of 5-6 students) will present problematic cases that they have observed first hand or as real situation due to conflict with a client or a veterinarian.

- 5.3) Specialized seminar on interpretation of hematology and cytology (2 hours): a clinical case selected during the rotation (groups of 2-3 students) will be worked on where the cytology or hematology (blood smears) have been used for the diagnosis. They will share with the rest of the students as mystery case.

- 5.4) Seminar on the interpretation of hematological and cytologic preparations (1h): students will hold a specialized seminar to discuss all the hematological and cytological preparations that students have evaluated previously independently.

- The attendance to all the activities is mandatory and will be controlled by the professors participating in the supervised teaching and in seminars. This attendance is an indispensable requirement to pass the subject. The possible exceptions to this rule must be justified and will be valued by the person in charge of the subject.

- In Moodle the subject will be centralized: (1) the delivery of work to be exhibited in the seminars of clinical cases, (2) the organization and normative evaluation of the Clinical Rotation, (3) complementary material that professors deem appropriate.

- THE STUDENT IS RESPONSIBLE TO SHOW ASSISTANCE TO ALL ACTIVITIES (4 introductory seminars, HCV rotation and 4 clinical cases seminars). THE ASSISTANCE CONTROL AT ALL ACTIVITIES WILL BE USING THE STUDENT PORTFOLIO.

IN THIS PORTFOLIO, THE STUDENT WILL RECEIVE THE SIGNATURE OF THE RESPONSIBLE FOR EACH SEMINAR OR ACTIVITY LOG IN THE HCV ROTATION, AND WILL GIVE A BRIEF DESCRIPTION OF THE PROCEDURES CARRIED OUT AND PATIENTS TREATMENT PERFORMED ON EACH SHIFT.

- THE STUDENT PORTFOLIO WILL BE GIVEN AT HCV OR DOWNLOAD THROUGH MOODLE. THE STUDENT IS IN CHARGE TO HAND DELIVERY THE PORTFOLIO DURING THE LAST ACTIVITY OF HCV CLINICAL ROTATION OR SENT BY EMAIL SCANNED PORTFOLIO IN PDF FORMAT TO THE COORDINATOR HCV ROTATION.

Use of IA

Model 2 - Restricted use: "For this subject, the use of Artificial Intelligence (AI) technologies is allowed exclusively"

The student will have to clearly identify which parts have been generated with this technology, specify the tools used

will be considered a lack of academic honesty and may lead to a partial or total penalty in the grade of the activity

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

## Assessment

### Continuous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Evaluation of the HCV rotation: 25% student portfolio and 25% according to the rubric that evaluates attitude, participation and knowledge	50%	0	0	21, 4, 7, 41, 12, 8, 3, 2, 5, 42, 37, 10, 14, 13, 15, 16, 17, 20, 19, 18, 34, 35, 11, 28, 25, 45, 27, 26, 30, 29, 32, 43, 44, 23, 38, 39, 46, 33, 40, 36, 50, 49, 51, 52, 47, 53, 54, 31, 22
Clinical pathology (mystery case and cytological and hematological slides)	10%	0.25	0.01	1, 6, 9, 34, 35
Evaluation initial seminars	10%	0	0	20, 35, 27, 32, 23
Oral presentation in groups of 5-6 students, seminars of bioethical cases and legislation	10%	0.25	0.01	1, 9, 48
Oral presentation of the clinical case in groups of 2-3 students	20%	0.3	0.01	1, 4, 6, 9, 48, 24

An unique assessment is not available in this subject. The assessment will consist of:

- 50% will correspond to the evaluation of HCV rotation. The assessment will be carried out as follows: 25% student's portfolio, 25% attitude, participation and knowledge (evaluated by ICU, internal medicine and



diagnostic imaging services). The portfolio should be submitted to the head of the subject before finishing the following group. Group 6 can submit the portfolio until June 30th.

- The remaining 50% of the final mark of the subject is distributed between initial seminars (10%), the clinical case seminar (20%), the bioethics and legislation seminar (10%) and seminars of clinical pathology-mystery case and preparations for hematology / cytology (10%).

The mystery case seminar (groups of 2-3 students, written format) and will count 90% of the mark and 10% of the mark will be valued with the seminar of hematological and cytological preparations.

- The presentation of the clinical case, the case of bioethics and cases of hematology / cytology are essential to overcome the subject. If the case is not presented in any of these 3 seminars the student will not pass the subject.

- Failure to attend any of the previous or later seminars or any of the HCV rotations without justification will imply the penalty in proportion to absences: 0.5 points less than the final grade for each seminar, and 0.25 points less than the final mark for each 5-6 h of practice at HCV not performed.

THE RESPONSIBILITY OF THE STUDENT IS TO PROVIDE ASSISTANCE TO ALL ACTIVITIES (4 initial seminars, rotation HCV and 4 clinical cases seminars) THROUGH THE PORTFOLIO IN WHICH THE SIGNATURE OF THE RESPONSIBLE OR COLLABORATOR OF EACH SEMINAR OR HCV PRACTICAL ROTATION.

IN CASE THE STUDENT LOSES THE PORTFOLIO HE/SHE WILL NOT BE ABLE TO DEMONSTRATE ATTENDANCE TO THE ACTIVITIES AND WILL NOT PASS THE COURSE. According to point 9 of article 266 of the Academic Regulations of the UAB, when it is considered that the student has not been able to provide evidence of evaluation, this assignment must be graded as not evaluable. The grade of not evaluable will be given when a student has not participated in more than 50% of the seminars and hospital internships.

English assessment:

The assessment of English computes exclusively at the level of the mark obtained in the activity carried out in this language. The bonus rate is established between "no bonus" - 10% bonus on the content note. As an orientation, the following general criteria are established:

- Do not receive bonus: little or very little oral communicative ability or written in English. The vocabulary is poor and not understandable.

- 5% of the note on contents: reasonable oral communicative ability or written in English. It is understood what he/she wants to explain although he/she makes many mistakes and his/her vocabulary is limited.

- 10% of the note on contents: good oral communicative ability or written in English.

The teacher will be the one who ultimately will mark the final bonus that the student will receive (between the "no bonus" range - 10% on the content note).

## **Bibliography**

There is no specific bibliography, it is recommended to consult the bibliography of the relevant core subjects.

Some interesting web links:

[www.ivis.org](http://www.ivis.org)

[www.pubmed.org](http://www.pubmed.org)

## Software

### SOFTWARE CAMERA WIFI microscope (HCV student room)

- 1) Download the app or software  
for Windows and Mac: ImageFocus Alpha Software  
for Android: ImageFocus Alpha App  
for iPhone: from the App Store, ImageFocus\_Alpha by Euromex microsc
  - 2) Connect to the camera's wifi network (Euromex\_DC.5000Wifi\_004F78)
  - 3) Open the app / program, click on 'Device DC.5000 wifi' and the Sample Student room computer
- If instead you want to use a mobile device or a tablet or laptop, you can use  
To access you must enter:  
Username: microscope  
Password: microscope  
The server you need to set up to log in is Serna which I think comes out of  
PLEASE DISCONNECT THE CABLE FROM THE WIFI CAMERA FROM

## Groups and Languages

Please note that this information is provisional until 30 November 2025. You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject.

Name	Group	Language	Semester	Turn
(SEM) Seminars	1	Catalan/Spanish	annual	morning-mixed
(SEM) Seminars	2	Catalan/Spanish	annual	morning-mixed
(SEM) Seminars	3	Catalan/Spanish	annual	morning-mixed
(SEM) Seminars	4	Catalan/Spanish	annual	morning-mixed
(SEM) Seminars	5	Catalan/Spanish	annual	morning-mixed
(SEM) Seminars	6	Catalan/Spanish	annual	morning-mixed