Policies & Procedures, Part 2:
Small Mammal Specialty

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European College of Zoological Medicine

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The European College of Zoological Medicine (ECZM) recognizes five separate specialties under the ECZM umbrella; Avian, Herpetology, Small Mammal; Wildlife Population Health and Zoo Health Management.

The small mammal specialty Policies & Procedures, Part 2 document follows the structure below:

Chapter 1: Introduction
Chapter 2: Requirements for admission to the European College of Zoological Medicine
Chapter 3: Small Mammal Residency Programmes
Chapter 4: Examination Credentialing and Application Procedure
Chapter 5: Small Mammal Approved Residency Training Sites
Chapter 6: Small Mammal Reading List

Appendix 1: Resident Case Summary Template

Appendix 2: ECZM Small Mammal self-assessment checklist for approval of residency training sites
Chapter 1: Introduction

The Small Mammal specialty of the European College of Zoological Medicine was founded in 2009. This specialty recognizes a distinct branch of veterinary medicine and surgery, which has an emphasis on the veterinary care of pet rabbits, rodents and ferrets, but also includes other non-conventional small mammals kept as pets. The specialist in Small Mammals will function in academic settings or in a specialist practice, aiming to advance exotic mammal medicine and surgery in Europe and other parts of the world.

The Policies and Procedures, Part 2 contain information about requirements for admission to the College, a profile of the Small Mammal specialty, and application and examination procedures.
Chapter 2: Requirements for admission to the European College of Zoological Medicine

The requirements for admission to the College as a Diplomate and being a Specialist are specified in the Bylaws of the College, in line with the Policies and Procedures determined by the EBVS. The requirements listed below are a condensed version Chapter 4 of the Policies and Procedures, Part 1: General Information and the requirements found in Article 4 in the ECZM Constitution.

Diplomates of the small mammal specialty appointed by the College are veterinarians who:

- Have demonstrated fitness and ability to practise small mammal medicine and surgery by meeting the established training and experience requirements as assessed by the College, including publication requirements.
- Have attained acceptable scores in the small mammal examination.
- Demonstrate moral and ethical standing in the profession and practise scientific, evidence-based veterinary medicine, which complies with animal welfare legislation.
- Practise small mammal medicine and surgery for at least 60% of their time, based on a 40 hour working week (i.e. > 24 hours/week).
- Are re-evaluated every 5 years using a standard re-certification process.

Each individual who satisfies the above requirements shall be authorized to use the designation of Diplomate of the European College of Zoological Medicine (Small Mammal), abbreviated to DipECZM (Small Mammal). The individual is also awarded, by the EBVS, the title of European Veterinary Specialist™ in Small Mammal, following successful re-evaluation every 5 years.

Each Diplomate is expected to actively participate in the scientific and business affairs of the College.

Further information on specific requirements for prospective candidates is also found in the ECZM Policies and Procedures, Part 1: General Information.
Chapter 3: Small Mammal Residency Programmes

A Residency Programme is a training programme allowing a graduate veterinarian ("Resident") to acquire in-depth knowledge of small mammal medicine and surgery, and its supporting disciplines, under the supervision and guidance of one or more small mammal Diplomates ("Diplomate").

The Residency Programme will focus on Small Mammal medicine and aims to:

- instil theoretical knowledge, applied practical skills and an ethical attitude in the practice of Small Mammal medicine.
- provide the Resident with the opportunity to pursue career goals in teaching, research, service, and/or specialty practice.
- prepare the Resident for small mammal examination.

A. Detailed objectives of the Small Mammal Residency Training Programme

- The Small Mammal specialist is expected to have knowledge on the taxonomy and the geographical distribution of the different groups of small mammals as commonly kept, including those groups of animals which are common wild animal casualties (i.e. rabbits, squirrels and hedgehogs).
- The Small Mammal specialist should have an understanding of the natural history of all the above groups, particularly in regard to their feeding habits and nutritional requirements. Also which of these animals are territorial (all the time or only when breeding) and which are potentially aggressive and predatory.
- A basic knowledge of general anatomy, physiology and immunology, relating to the Small Mammal specialty is expected. The specialist should be aware of important variations between the different orders and families of animals as relevant to the specialty.
- The Small Mammal specialist must be able to assess diets, understand the formulation of diets for animals and be aware of the current trends in animal nutrition. The specialist should have a sound knowledge of the interaction of nutrition and health.
- A Small Mammal specialist should be familiar with the various aspects of captive care, husbandry, and management, including propagation, neonate and developmental care. Genetic principles and their application in the Small Mammal specialty must be understood by the candidate.
- A detailed knowledge of the small mammal diseases (aetiology, epidemiology, pathology, diagnosis, treatment and control) is required. It is not sufficient to only know the pathogens responsible for disease but it is also important to have knowledge of which types of disease occur more commonly in various groups of animals. Small Mammal specialists need to know the gross pathology of each disease but will realize that a specific diagnosis can only be confirmed by using appropriate laboratory techniques.
- Small Mammal specialists must be familiar with common toxins which are most likely to affect various groups of their patients. They must know the clinical signs these toxins produce and be familiar with the differential diagnosis. Small Mammal specialists will need to know which body tissues and specimens are required by a laboratory for the identification of the toxin.
- A detailed knowledge of the advanced diagnostic possibilities in their Small Mammal patients, in relation to medicine (e.g. haematology, blood chemistry, endocrine tests, immunological tests, diagnostic imaging, including gastrointestinal contrast studies, diagnostic endoscopy, electrocardiography, fine-needle aspiration, microbiology, cytology) and the ability to interpret results of these techniques is expected.
- Small Mammal specialists must have sound knowledge of the principles of individual and group
medication in their patients. This includes knowledge of the pharmacokinetics and the bioavailability of drugs which are suitable for treatment and also the various methods of administration.

- The Small Mammal specialist must be acquainted with the social role and the responsibilities of the specialist with regard to their patients, clients, colleagues, public health and environmental issues. Furthermore, the specialist must also be able to express and support views on current issues relevant to this field of knowledge.

- It is necessary to have a general knowledge of the legislation affecting the Small Mammal field and to have a detailed knowledge of the legislation relating to the role of the veterinary practitioner in the field (e.g. CITES, legislation with regard to import and export of animals, animal welfare, legislation on hunting and capture from the wild, the use of drugs and immunobiologics).

- Theoretical knowledge should be to the level of current textbooks. Furthermore, it is essential to be aware of the relevant scientific literature published over the previous five years in representative journals as detailed in the Small Mammal reading list.

- The Small Mammal specialist should have had extensive practical experience with a wide variety of species relevant to the specialty.

- The Small Mammal specialist must be competent in the various skills associated with the field including history taking, catching and handling his patients, and clinical examination of animals for assessment of health, clinical pathology sample collection, vaccination and medication methods and in addition anaesthetic and surgical procedures.

- The Small Mammal specialist should be familiar with the techniques of radiosurgery, endoscopy and know about such routine techniques as dental treatment, the principles of orthopaedic surgery, surgery of the gastrointestinal tract, the respiratory tract and reproductive tracts, etc.

- A specialist in Small Mammal medicine shall be able to handle emergencies in small mammal patients.

B. Small Mammal Training programme description

The Residency programme will focus on all aspects of small mammal medicine and be supervised by a small mammal Diplomate.

Prerequisites for specialty training

Details of the training required prior to undertaking a residency programme can be found in section 5.2 of the Policies and Procedures, Part 1, General Information.

In summary, this first period must be a one year rotating multi-disciplinary internship (in any species) or 2 years in general practice. This period of training must be approved by the Education and Residency Committee prior to starting a residency training programme, but pre-approval of this training period is not required.

Residency programme description

A second period shall comprise a three-year (minimum) postgraduate training programme (standard residency) or an alternate programme under supervision of a small mammal Diplomate of ECZM.

The period is designed to educate the resident primarily in the art and science of small mammal medicine. There shall be additional instruction in the related disciplines of anatomy, physiology, diagnostic imaging, anaesthesiology, ophthalmology, clinical pathology, surgery, clinical nutrition, epidemiology, preventive medicine, and gross pathology.
The specific requirements for a standard residency programme or an alternate route can be found in chapter 5 of the Policies and Procedures, Part 1: General Information and, in particular sections 5.3 – 5.6.

Other Duties

At least 20% of the residents Programme must be off clinical duties. During this time residents must fulfil their requirements for research, publications and speaking engagements. In addition any or all of the following activities can also be undertaken in this time:

1. Research or clinical investigation.
2. Preparation of scientific manuscripts.
3. External small mammal rotations with the approval of the supervisor.
4. Anaesthesiology, diagnostic imaging, and pathology service requirements as described below.
5. External rotation in a laboratory research facility.
6. External rotation at alternative sites specialising in orders or disciplines to which they would otherwise be minimally exposed, or to gain additional experience with novel techniques or equipment.

C. Specific Small Mammal Residency Programme Content

Small mammal medical service rotations facilitate the development of the knowledge, skill, and proficiency in the respective specialty via exposure to a wide variety of respective diseases together with the guidance and collaboration of experienced specialists in the specialty.

At least 60% of the 3 year programme must be spent on a small mammal medical and surgical service under the supervision of an ECZM small mammal Diplomate. The degree of responsibility assumed by the Resident shall be appropriate to the nature of the procedure and training experience. The Resident on a small mammal medical and surgical service shall be responsible for:

a) Receiving clinic appointments.

b) Supervising daily management of hospitalized animals.

c) Participation in clinical teaching.

d) Providing optimal clinical service and prompt professional communications.

e) Participation in a small mammal medical and surgical emergency service.

Required additional training in other disciplines:

A. Anaesthesiology

During the residency period the Resident must obtain a total of 10 days of training under the supervision of a Diplomate of the European or American College of Veterinary Anaesthesiologists or their equivalent.

B. Diagnostic imaging

During the residency period the Resident must obtain a total of 10 days of training under the supervision of a Diplomate of the European or American College of Veterinary Diagnostic Imaging or
their equivalent. Alternatively radiological and ultrasonic interpretation of the clinical cases of the Resident should be performed under supervision of a Diplomate in diagnostic imaging.

C. Surgery

Twenty days instruction and training on basic surgical principles and radio-surgery under the supervision of a Diplomate of the European or American College of Veterinary Surgery, or their equivalent, is required during the residency period.

D. Small mammal pathology

During the residency period the Resident must obtain at least 65 days of training under the supervision of a Diplomate of the European or American College of Veterinary Pathology or their equivalent. Alternatively the Resident may carry out 20 days of training under the supervision of a Diplomate in Pathology in addition to evaluating 30 post mortem examinations of small mammal patients, seen as clinical cases. Those 30 post mortem case reports need to be verified by a Diplomate of the European or American College of Veterinary Pathology, or their equivalent or a pathologist approved by the Education and Residency Committee. The Resident should be encouraged to present or attend patient rounds and clinical case presentations.

E. Laboratory Animal Research

During the residency period the Resident must spend at least 20 days carrying out an external rotation in a laboratory research facility.

Residents may spend time at multiple centres in order to achieve the required standard during the programme.

D. Facilities, services, and equipment required in a small mammal residency programme.

The approved programme must be based at a centre with the following facilities:

A. Medical library: a library containing recent textbooks and current journals relating to small mammal medicine and surgery and its supporting disciplines must be immediately accessible to the Programme participants (working collection).

B. Medical records: a complete medical record must be maintained for each individual case and rapid retrieval of information about any patient or group should be possible.

C. Radiographic services: separate rooms and appropriate equipment for comprehensive diagnostic imaging must be available.

D. Pathology services:
   1. Clinical pathology: a clinical pathology laboratory for haematology, clinical chemistry, microbiology, and cytological diagnosis must be available. Clinical pathology reports must be retained and retrievable.

   2. Morphologic pathology: a separate room for gross pathologic examination must be available. Facilities for histopathologic examination of necropsy tissues must be available. Anatomic pathology reports must be retained and retrievable.

E. Medical and surgical facilities:
   1. Clinical examination rooms: the examination rooms must be designed, constructed, used,
and maintained consistent with the current concepts of practice. They must be sufficient in number and size to accommodate the case load.

2. Treatment areas: Areas for intensive care, special procedures, isolation, and good nursing must be available. Intensive care units in the form of an incubator with heat control and oxygen delivery system are mandatory. Consideration to biosecurity and control of pathogen spread between patients is advisory.

3. Operating room: the operating rooms must be designed, constructed, used and maintained consistent with current concepts of veterinary surgery. The surgery room(s) must be sized adequately for the patient, staff, and associated equipment. The sterile surgery room(s) must be ventilated according to the current concepts of aseptic surgery. Emergency lighting must be available. In accordance with modern standards, the sterile theatre should not be used for any other purposes.

4. Anaesthetic and critical care equipment: appropriate anaesthetic and critical care equipment must be available. An isoflurane vaporizer with an adequate scavenging system is mandatory. Routine monitoring of surgical patients with respiratory or cardiac monitors is required.

5. Surgical instrumentation: a full complement of general and special instrumentation for diagnostic and surgical procedures must be available. Ophthalmologic equipment and orthopaedic instrumentation sufficient for current standards of practice must be present.

6. Photography: photographic equipment for the documentation of disease must be available.

7. Sterilization: steam and heat sterilization of surgical instrumentation and supplies must be available, and the sterilization capacity must be commensurate with the caseload.

E. Case numbers and case logs.

The caseload of the institution must be large enough to afford the candidate adequate exposure to all required phases of practice of small mammal medicine. The minimum acceptable number of accessions will depend upon the difficulty of the problem and the extent of treatment provided, but should be divided over a range of different types of procedures and species. The resident should be involved in minimum 10 small mammal cases per week, and at least 450 patients over the course of the entire residency period.

While a minimum case load is necessary to develop clinical experience, the candidate must also be provided with sufficient time to evaluate patients properly, to study, and to participate in rounds, workshops, work with other Board Certified Specialists and to lecture.

F. Documentation

The resident is responsible for maintaining and timely submission of the reporting package to the Education and Residency Committee as described in Policies and Procedures; Part 1, sections 5.6.

The small mammal specialty is a clinical residency program and therefore follows the report submission frequency 3-3-6-6-6-6 months (Policies and Procedures: Part 1, section 5.6.1). The
reports must be maintained and submitted in the officially approved specialty report templates as described below. A set of small mammal case log documents is available on the website.

1. **Medical and Surgical Case Log**

A medical and surgical Case Log listing the date of procedure, case number (running total), (sub) species, diagnosis, medical or surgical procedure, designation as elective or emergency, and responsibility as assistant or primary clinician must be maintained by the Resident. The Resident may be considered to be the primary clinician when that individual can document a significant role in all of the following aspects of management: determination or confirmation of the diagnosis, provision of preoperative care, selection and performance of appropriate operative procedure, direction of the postoperative care, and accomplishments of sufficient follow-up to be acquainted with the course of the disease and the outcome of its treatment. Where a case is seen several times, all follow-up visits should appear with the initial examination, although dated as the date of each examination.

Apart from the log which is submitted every 3 to 6 months, the Resident shall retain (or be able to retrospectively create from clinical records) a single page record of each case examined. The Resident will be requested to submit random examples of these sheets, after submission of the case log. The template for this is presented in Appendix 1.

2. **Resident Procedures Log**

A Resident procedures log must be maintained within the small mammal case log. This must list a running total of diagnostic and therapeutic procedures performed, case number, signalment, procedure performed, and results.

3. **Resident Post Mortem Log**

A Resident Post Mortem log which should contain case number, signalment, date, diagnosis, complications/reason for mortality, post mortem diagnosis if applicable shall be maintained. This log contains cases from the case logs in which unexpected complications (morbidity/mortality) have occurred. This may also contain the 30 supervised cases if that option is chosen above.

4. **Resident Continuing Education Log**

A Resident Continuing Education Log listing conferences, seminars and lectures attended must be maintained by the Resident.

5. **Resident Presentation Log**

A Resident Presentation Log listing presentations given at zoological medicine conferences and other professional meetings must be maintained by the Resident.

6. **Resident Log and Programme Summary Form**

The resident is responsible for maintaining a Resident Log and Programme Summary form. This form is a summary of the residents activity over a 12 month period and includes Clinical Service Rotations, time spent in various disciplines, presentations given, total number of cases by system, emergency cases, summary of residents role in all cases, and degree of supervision, and progress on case reports and manuscript.
7. Resident Progress Report

This Progress Report contains a summary of the residents activity throughout the residency period and includes an up-to-date overview of the residency, including the % of supervision, total number of cases seen so far, days of specialist training that have been completed in the various disciplines, hours of completed CPD, number of international conferences attended and progress with regard to the research project, number of publications in peer-reviewed journals and presentations/lectures.

8. Supervisor Progress Report

Similar to the Resident, the Resident Supervisor will also submit a Supervisor Progress Report to the Education and Residency Committee, in which the Supervisor states that he/she has seen and verified the Case Log submitted by the Resident, as well as his/her expectations with regard to completion of the residency and additional concerns and/or actions to be taken.

In addition, the resident is required to complete an annual Residency Evaluation Form. This is submitted to the Chair of the Education and Residency Committee, and gives the resident an opportunity to evaluate the residency programme they are taking part in. The information is strictly confidential and if problems are raised, the Chair will contact the resident privately to discuss things further.

Residents must meet with the Programme supervisor at least twice yearly for evaluation of performance and progress. When the resident has multiple supervisors, this meeting should be preceded by a meeting among the supervisors.

Late submission of reports may be subject to sanctions as detailed in section 5.6.3 of the Policies and Procedures; Part 1; General Information

G. Research, publications and speaking requirements

The research, publications and speaking requirements should be performed in the allocated time for other duties detailed above and they can fill all of the 20%, or part thereof.

Publications:

(i) The resident must complete at least one (1) investigative project that contributes to the advancement of small mammal medicine and surgery. The resident must be first author and have the work accepted for publication in a peer reviewed well-established internationally refereed scientific journal (i.e. mentioned in the Science Citation Index or in the reading list of the small mammal specialty) prior to sitting the examination.

(ii) The resident must complete at least one (1) additional paper that also should be accepted for publication, and can be original scientific research, a case series or a single case report. The resident does not necessarily have to be the first author of this paper.

(iii) Five (5) case reports or surgical cases personally handled, with a maximum of 1500 words each, which give an impression of analytical approach of the candidate. If the candidate has published more than one case report as first author, the following will count here. However, these case reports do not have to be published but are required as part of the documentation for the application for the qualifying examination.
Other requirements:

**Continuing Professional Development:** A minimum of fifty hours of formal continuing education is required per year. External continuing education may be within the local, regional, national or international meetings in the specialty. This should include participation in wet labs. All activities in this area must be recorded in the *Resident Continuing Education Log*. Internal continuing education at the institution includes participation in journal clubs, case presentation seminars and wet labs which are organised as part of the residency.

**Clinical Rounds:** The Resident should be encouraged to present or attend patient rounds and clinical case presentations where possible. In addition, the Resident should participate in the clinical education of graduate veterinarians and/or veterinary medical students within the field of small mammal medicine.

**Conferences:** Attendance of at least two (2) international conferences, relevant to small mammal medicine, with active participation in wet labs is required during the residency period.

**Seminars:** Present a minimum of two (2) one-hour seminars per year in a formal setting with attendance of other veterinarians. A seminar is defined as a scientific presentation which is followed by a discussion period.

**Presentations:** The Resident should aim to present cases regularly at scientific conferences. At least once during the residency, the Resident must speak at an international conference on material relevant to the small mammal discipline.
Chapter 4: Examination Credentialing and Application Procedure

Examination Credentialing

The process, documentation, and deadlines required to credential to sit an ECZM examination is detailed in chapter 6 of the Policies and Procedures, Part 1: General Information.

Listed below is a summarized version of that section with reference to specific the small mammal specialty requirements. Applicants are advised to refer to BOTH this list and section 6.4. of the Policies and Procedures, Part 1: General Information, in order to submit a complete application for examination credentialing.

- **Covering Letter**
- **Curriculum Vitae**
- **Reference letter(s)** from the programme supervisor(s) of each institution involved in the training programme.
- **Documentation logs.** For small mammal these include *Medical and Surgical Case Log*, *Resident Procedures Log*, *Resident Post Mortem Log*, *Resident Continuing Education Log*, *Resident Presentation Log* and *Resident Log and Programme summary from*. If the training programme is not yet finished then the logs must be complete up to the time of application.
- **Case Reports.** Five (5) reports of small mammal cases personally handled with a maximum of 1500 words each, which give an impression of analytical approach of the candidate.
- **Publications.** At least two (2) original peer reviewed papers in small mammal medicine, published in a well established internationally refereed scientific journal (i.e. mentioned in the Science Citation Index or on the small mammal specialty reading list). Of one (1) of these papers the applicant must be the principal author and it must be the result of an original research project; of the other, the applicant is not necessarily the principal author. Publications must be already published or fully accepted for publication as evidenced by a letter from the editor.
- Any relevant previous correspondence relating to the training programme and application.
- Evidence of payment of *Credentialing for Examination fee*.

The application materials must be arranged as detailed above and sent electronically to the ECZM Secretary before the deadline. Any subsequent correspondence should be through the Secretary unless advised otherwise. All submitted application materials become the sole property of the ECZM and will not be returned to the applicant.

Applying for and sitting the examination

The small mammal specialty examination and application process, follows the general format of all College examinations as detailed in Chapter 7 of the Policies and Procedures, Part 1: General Information. Candidates are advised to read that chapter alongside this section, so they are fully informed about all aspects of the application and examination.

The small mammal specialty examination will aim to test all aspects of small mammal medicine and surgery. It will be composed of two sections:
1. Written section containing multiple choice questions

This section consists of 100 multiple choice questions each worth one point (total available this section; 100 points). The pass mark is 65%. Each multiple-choice question consists of two parts: the stem and the responses. The stem is the introductory statement or question. The responses are suggested answers that complete the statement or answer the question asked in the stem. For each question, there is one correct response, and 4 distractors. The MCQ examination is 3 hours in duration only, with no additional perusal time.

2. Practical/written section designed to test interpretive skills

The second part is the practical/written part of the exam and contains 27 questions spread across 9 “stations”, with 3 separate questions at each station. The questions relate to appropriate small mammal clinical or management situations. Each question will be read or shown to the candidate and 20 minutes will be given to answer before moving on. After all questions have been seen, a further review period of 20 minutes will be allowed, where the candidate can return to any station, before the exam papers are handed in to the examiner. Each question is worth 10 points (total available this section; 270 points). The pass mark is 65%.

The integrity of the Diplomate status examination will be maintained by the European College of Zoological Medicine to insure the validity of scores awarded to candidates.

Obligations for the successful examination candidate and requirements for re-application for an examination, along with all other polices and deadlines regarding the exam are found in Chapter 7 of the Policies and Procedures, Part 1: General Information.
Chapter 5: Small Mammal Approved Residency Training Sites

Hospital for Small Animals, Easter Bush Veterinary Centre, Roslin, Edinburgh, **United Kingdom**
Supervisor: Kevin Eatwell
kevin.eatwell@ed.ac.uk

Hospital Clinic Veterinari, Facultat de Veterinària, Universitat Autònoma de Barcelona, **Spain**
Supervisor: Jaume Martorell
Jaumemiquel.martorell@uab.es

Ecole Nationale Vétérinaire d'Alfort, Centre Hospitalier Universitaire Vétérinaire d'Alfort, Avenue du Général de Gaulle, Maisons-Alfort, Paris, **France**
Supervisors: Charly Pignon and Thomas Donnelly
charly.pignon@vet-alfort.fr

University of Liège, Faculty of Veterinary Medicine, Boulevard de Colonster, Liege, **Belgium**
Supervisor: Didier Marlier
dmarlier@ulg.ac.be
Chapter 6: Small Mammal Reading List (valid for 2020 examination onwards)

This document is intended to assist residents in compiling a list of text books and journals that should be read prior to sitting the ECZM small mammal examination. The program resident and supervisor should ensure these are available at the main institution where the resident works, either as part of the university or practice library, or owned personally by the resident or supervisor. It is important that the resident has access to the entire reading list as this forms the basis of the examination. The resident should ensure they have the latest (current years) edition for examination preparation as additional texts and journals may have been added by the examination team. It is impossible for such a list to be comprehensive and cover all current information on the discipline. It is the resident’s responsibility (with the assistance of their supervisor) to ensure they are current on all relevant information in the field.

The reading list will be circulated by the chairperson at least 3 months prior to the AGM for the members of the small mammal specialty to put forward any up-to-date alterations. Those will then be integrated into the reading list aiming to keep to a page limit of 10,000 pages.

All Diplomates are required to refer to *Terminologia Anatomica (TA)* for anatomical nomenclature.

**List of journals (last 5 years), only articles clinically relevant to the specialty**

- American Journal of Veterinary Research
- Journal of the American Animal Hospital Association
- Journal of the American Veterinary Medical Association
- Journal of Small Animal Practice
- Journal of Exotic Pet Medicine (Saunders)
- Veterinary Clinics of North America, Exotic Animal Practice
- Veterinary Record
- Veterinary Journal
- Veterinary Dermatology
- Veterinary Ophthalmology
- Veterinary Clinical Pathology

**Monographs**


16. Suckow MA, Stevens, KA, Wilson RP (Eds): The Laboratory Rabbit, Guinea Pig, Hamster, and Other Rodents. Elsevier, 2012 (IN TOTAL 1268 PP, ONLY TOPICS RELEVANT TO THE SMALL MAMMAL SPECIALTY)

17. Thrall, MA. Veterinary Hematology and Clinical Chemistry Wilkins Blackwell ONLY THE PARTS RELATED TO SMALL MAMMALS, i.e. chapter 16 and 31 (30 p)


LAST UPDATED AUGUST 2018
## Appendix 1: Resident Case Summary Template

<table>
<thead>
<tr>
<th>Reference No</th>
<th>Date</th>
<th>Common Name</th>
<th>Latin Name</th>
<th>History</th>
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**Reason for presentation**

**Presenting Signs and Symptoms**

**Diagnostic Procedures**

**Physical**

**CBC**

**Biochemistry**

**Cytology**

**Radiology**

**Ultrasonography**

**Other**

**Treatment (to include drugs, dose rate, frequency and route of administration)**

**Response to therapy**

**Case Outcome**
Appendix 2: ECZM Small Mammal self-assessment checklist for approval of residency training sites

Small Mammal Facility Name:

Purpose of inspection:

✓ Approval as a residency training centre for ECZM
✓ Re-inspection after 5 years
✓ Re-inspection due to meaningful changes within the residency site (indicate which changes)

Date inspection conducted:

Inspector names:

Facility Representative names:

<table>
<thead>
<tr>
<th>Case load of the institution must be large enough to afford the candidate adequate exposure to all required phases of practice. The case load should consist of at least 10 (ten) relevant cases per week.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of cases over past 5 years</td>
</tr>
<tr>
<td>Year 1</td>
</tr>
<tr>
<td>Describe percentage of animal species seen</td>
</tr>
<tr>
<td>- Ferret</td>
</tr>
<tr>
<td>Describe percentage of procedures performed</td>
</tr>
<tr>
<td>- Emergency and after-hours</td>
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<tr>
<td>- Diagnostic procedures other than blood collection (specify)</td>
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<tr>
<td>- Diagnostic Imaging:</td>
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<tr>
<td>o Radiography</td>
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<tr>
<td>o Ultrasound</td>
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<td>o Other (specify)</td>
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<tr>
<td>- Surgery</td>
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<tr>
<td>o Neutering</td>
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<tr>
<td>o Soft tissue other than neutering</td>
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<tr>
<td>o Orthopaedic</td>
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<tr>
<td>o Dental</td>
</tr>
<tr>
<td>- Necropsy</td>
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<td>o With histopathology</td>
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<td>o Without histopathology</td>
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</tbody>
</table>
Medical records: a complete medical record must be maintained for each individual case and rapid retrieval of information for a patient or group of patients should be possible.

- Can diagnostic imaging and clinical pathology reports and other relevant case information be stored and retrieved for each case?
- How is information on hospitalized patients recorded?

Clinical examination rooms: the examination rooms must be designed, constructed, used, and maintained consistent with best current practices

- Sufficient in number and size to accommodate the case load?
- Appropriate in design?

Hospitalisation areas that ensure good nursing must be available with consideration given to biosecurity and control of pathogen spread between patients.

- Separate cages with heat / humidity control and oxygen delivery available?
- Recording of treatments and progress of the patient?

Isolation facilities/Quarantine areas that include appropriate consideration given to biosecurity and control of pathogen spread between units must be present.

- Appropriate isolation facilities available?
- Individual equipment available?

Diagnostic imaging equipment must be used and interpretation conducted by the residents. Radiation monitoring is mandatory.

- Labelling, recording and filing of all images and reports
- Safety monitoring is put into place?
- Radiography equipment available?
- Ultrasound equipment available?
- Endoscopy equipment available, including for biopsy collection?
- ECG available?
- MRI, fluoroscopy, CT available or available by an external centre?

Clinical pathology: a clinical pathology laboratory for haematological, clinical chemistry, microbiological, and cytological diagnosis must be available. Clinical pathology reports must be retained and retrievable.

- Microscope and equipment for staining slides is available?
- Blood chemistry bench top analyser/ blood gas analyser available or available by an external laboratory?
- Microbiology available on site or by an external laboratory?

Operating rooms must be designed, constructed, used and maintained consistent with best current practices

- Must be used only for surgery
- Must be sized adequately for the patient, staff and associated equipment.
- Must be ventilated appropriately
<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>v Emergency power available?</td>
<td></td>
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<tr>
<td>Anaesthetic and critical care equipment: must be available.</td>
<td></td>
</tr>
<tr>
<td>v A range of induction masks and endotracheal tubes are available</td>
<td></td>
</tr>
<tr>
<td>v Anesthetic gas vaporiser available</td>
<td></td>
</tr>
<tr>
<td>v Adequate scavenging system?</td>
<td></td>
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<tr>
<td>v Anaesthetic monitoring equipment?</td>
<td></td>
</tr>
<tr>
<td>v Suitable volatile and parenteral agents available?</td>
<td></td>
</tr>
<tr>
<td>v Emergency resuscitation equipment is readily available?</td>
<td></td>
</tr>
<tr>
<td>v Anesthetic records are maintained?</td>
<td></td>
</tr>
<tr>
<td>Surgical equipment: a full complement of general and special surgical instruments for diagnostic and surgical procedures must be available.</td>
<td></td>
</tr>
<tr>
<td>v Appropriate surgical equipment</td>
<td></td>
</tr>
<tr>
<td>v Dental surgical equipment</td>
<td></td>
</tr>
<tr>
<td>v Micro-surgery equipment?</td>
<td></td>
</tr>
<tr>
<td>v Magnification and good illumination equipment?</td>
<td></td>
</tr>
<tr>
<td>v Suitable suture material available?</td>
<td></td>
</tr>
<tr>
<td>v Electrosurgery equipment is available?</td>
<td></td>
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<tr>
<td>Sterilisation: Steam, heat, radiation and/or chemical sterilisation of surgical instruments and supplies must be available.</td>
<td></td>
</tr>
<tr>
<td>v Sterilisation equipment?</td>
<td></td>
</tr>
<tr>
<td>v Verification of sterilisation?</td>
<td></td>
</tr>
<tr>
<td>v Labelling and dating of all sterilised instruments?</td>
<td></td>
</tr>
<tr>
<td>Photography: photographic equipment for documentation of disease must be available.</td>
<td></td>
</tr>
<tr>
<td>v Digital camera and software for image storage</td>
<td></td>
</tr>
<tr>
<td>Medical library: a library containing textbooks and journals (or access to e-textbooks and e-journals) relating to small mammal medicine and its supporting disciplines must be immediately accessible to the resident. Medical library needs to be current with the ECZM reading list.</td>
<td></td>
</tr>
<tr>
<td>v Does the resident have access to all titles on the current reading list?</td>
<td></td>
</tr>
<tr>
<td>Staff: Resident should work with multiple veterinarians, veterinary technicians and animal keepers.</td>
<td></td>
</tr>
<tr>
<td>v How many veterinarians are on staff?</td>
<td></td>
</tr>
<tr>
<td>v How many veterinary technician / specialised keepers?</td>
<td></td>
</tr>
</tbody>
</table>
For self-assessment:

Provide a series of photographs documenting the facilities and equipment.

I, the Programme Supervisor, attest that this self-inspection report is an accurate indication of available facilities and equipment, and will provide additional information or documentation as requested by the Education Committee.

Signed

Date

For Inspection Visit:

Inspectors recommendations

The following mandatory conditions are made:

The following non-mandatory recommendations are made:

Signed

Date