Approved by the VF Council:

28-04-2017 Prot. No. 17

*Supplemented* by the VF Council:

03-6-2025 Prot. No. . VAF10-10

**Annex 1**

**CLINICAL PRACTICE BASE EVALUATION FORM**

.....................................................................................................................................................

(Full name of institution)

........................................................................................

(Form completion date)

|  |  |  |
| --- | --- | --- |
| No. | Requirements for clinical practice base | Description |
| 1. | **At the base of clinical practice clinical procedures and animal examination shall be constantly carried out in the following areas:*** Animal obstetrics, reproduction and reproductive disorders.
* Veterinary surgery;
* Animal internal diseases;
* Infectious diseases, zoonosis
* Parasitic diseases;

*(Indicate the average of the procedures, tests, completed paperwork during the year).* |  |
| 2. | **Personnel*** Veterinary doctors’ distribution according to work experience (> 3y., <3 y.);
* The number of veterinary doctors to serve as practice supervisors;
 |  |
| 3. | **Treated patient’s spectrum:** * Most commonly treated diseases and procedures performed, including their monthly/annual numbers
* Number of surgeries performed per month/year according to the most common diseases
* Provide a list of surgical operations performed
* Other veterinary procedures carried out at the clinic
 |  |
| 4. | **Diagnostic equipment used in the clinic** *(list).*Ultrasound and/or X-ray\*Hematology analyzer\*Biochemistry analyzer\*Urine analyzer\*Sample collection for laboratory or cytological testing Sample collection for laboratory or bacteriological testingMicroscope\*Possibility to perform blood smear analysisSurgical room\*Vital signs monitorInhalation anesthesia\*Surgical lampInstrument autoclaveOtoscope\*Laryngoscope\*Dental scaler\*\**Mandatory in small animal practice bases (veterinary clinics*)Also, state if clinic is divided into separate sectors. |  |
| 5. | **Conditions for student work:*** Possibility to use computer and network;
* Periodic income of scientific and veterinary medical practice publications for self-education;
* Change rooms and washrooms for trainees. *(Shower, cloakroom etc.)*
 |  |
| 6. | **Maximum number of students allowed to perform practices at once** (*list*) |  |
| 8. | **Availability for trainee accommodation** |  |

***Note: If clinical practice base fails 1-4 parts, in clinical practice base list is not included.***

Form completed by: (*Duties, name, surname, signature)*

Institution manager: *(Name, surname, signature,* ***stamp of the company****)*

by e-mail: vetklinikinepraktika@lsmu.lt

Approved by the VF Council:

28-04-2017 Prot. No. 17

*Supplemented* by the VF Council:

03-6-2025 Prot. No. . VAF10-10

**Annex 2**

**Schedule of CLINICAL PRACTICE**

**Base of practice:**

**Student:**

**Name, Surname, group**

|  |  |  |
| --- | --- | --- |
| **Month** *(exmaple: September)* | **Day** *(example: 12)* | **Time** *(example: 08:00 -14:00)* |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| *Total Hours:* |  |

**Date**

**Supervisor of practice:**

**Name Surname Signature Stamp**

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28-04-2017 Prot. No. 17

*Supplemented* by the VF Council:

03-6-2025 Prot. No. . VAF10-10

**Annex 8**

LITHUANIAN UNIVERSITY OF HEALTH SCIENCE

Faculty of Veterinary medicine

......................................................................................

(Name, Surname, study programme, course, group)

......................................................................................

(*phone number; e-mail)*

**STATEMENT**

For Clinical Practice place and period

20.......m...............................d.

Student \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, will perform Clinical Practice (Name, Surname) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*(place of registration of the receiving organisation) (official name; company code)*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*phone. no.; email)*

From\_\_\_\_\_\_\_\_\_\_\_\_ till \_\_\_\_\_\_\_\_\_\_\_ (total hours ....................)

 *(practice duration)*

**Place of Practice base**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*(address)*

**Agreement:**

*The head of receiving organization*: ............................................................................

*(position, name, surname, signaturem email)*

**Practice Supervisor**: .............................................................................

*(position, name, surname, signature)*

**Practice supervisor's personal/work email (required):**

|  |  |
| --- | --- |
| **Name Surname,[[1]](#footnote-1)POSITION***(the head of receiving organization)* |  |
| **Email address***(the head of receiving organization)* |  |
| **The basis of the company's representation, the legal basis for signing the contract** *(examples.: Articles of Association,* Order of the Director *or other* ***date of adoption number****). FULL NAME)* |  |

Data for ELECTRONIC CONTRACT (required)

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28-04-2017 Prot. No. 17

*Supplemented* by the VF Council:

03-6-2025 Prot. No. . VAF10-10

**Annex 10**

CONFIRMATION OF THE INDEPENDENCE OF TH CLINICAL PRACTICE REPORT

*(the name of the practice)*

I ..................................................................... confirm, that the presented practice report part

*(Student Name, Surname (handwritten))*

..........................

*(the name of report part)*

 have been done by me;

 have not been used in any other Lithuanian or foreign university;

 I have not used any other sources not indicated in the work and I present the complete list of the used literature\*. I am informed (aware) that any violation of the principle of the fair competition, cheating, plagiarism, duplication, otherwise violate of the Clause Academic Honesty of the Study Regulations of LSMU might give cause for expelling me from the University.

* It is forbidden to copy information from the clinic data register! ........................................................................................................................................................................ *(author’s Name, Surname (handwritten), signature, date)*

\*this sentence is written only in those practice procedures for which literature sources will be used in writing the reports

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28-04-2017 Prot. No. 17

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03-6-2025 Prot. No. . VAF10-10

**Annex 4**

**LITHUANIAN UNIVERSITY OF HEALTH SCIENCES**

**VETERINARY ACADEMY**

**FACULTY OF VETERINARY MEDICINE**

**REPORT OF CLINICAL PRACTICE**

**………………………………………………**

TITLE OF THE REPORT

TITLE OF THE CLINIC

Student: …. *Name Surname …*

VI year …. Gr.

Practice supervisor: …. *Name Surname*

Kaunas 202….

**PATIENT REGISTRATION JOURNAL**

|  |  |
| --- | --- |
| **No.** |  |
| **Date** |  |
| **TYPE OF ANIMAL** |  |
| **THE DETAILS OF THE CASE (anamnesis)** |  |
| **Body temperature.****Pulse.**[**Respiratory rate**](https://lt.techdico.com/vertimas/lietuvi%C5%B3-angl%C5%B3/kv%C4%97pavimo%2Bda%C5%BEnis.html)**Other more typical Symptoms** |  |
| **BLOOD, URINE, PUNCTURE, CYTOLOGY AND OTHERS TEST RESULTS (if performed)** |  |
| **METHOD USED FOR THE TEST (INCLUDING THE NAME OF THE DEVICE AND THE TECHNIQUE USED);** |  |
| **SPECIAL EXAMINATION METHODS (if performed)** |  |
| **DIAGNOSIS** |  |
| **TREATMENT AND PREVENTION** |  |
| **PROGNOSIS AND/OR OUTCOME OF THE DISEASE** |  |

**Annex 5**

**CASE STUDY OF PATIENTS DESCRIBED IN THE** **PATIENT REGISTRATION JOURNAL** (Annex 4) (title of report section)

|  |  |
| --- | --- |
| **Patient. No. 1** (*described in the patient registration journal*, *Annex 4*) case study. Written remarks, comments, personal opinion of the student about the covered case, otherwise, why (e.g.: what other or additional *procedures,* tests would you recommend, perhaps you think that the diagnosis may be different or even concurrent. The student must express his comments as well regarding the treatment. If necessary, provide recommendations regarding care, feeding, special diets etc.). Comment on the selected diagnostic tests, e.g., *which additional tests could be recommended to clarify the diagnosis; Comment and your suggestions for prevention, e.g., flea prevention for the pet, how to protect the animal, how to clean and manage the environment to reduce the risk of flea infestation*;Interpretation of blood results and parameters, including possible reasons for decreased or increased values. |  |
| Patient. No. 2 |  |
| Patient. No. 3 |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |

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28-04-2017 Prot. No. 17

*Supplemented* by the VF Council:

03-6-2025 Prot. No. . VAF10-10

**Annex 6**

Reflection (title of report)

(*To be written in accordance with the requirements for each part of the report*)

**EXAMPLE of Annex4**

**LITHUANIAN UNIVERSITY OF HEALTH SCIENCES**

**VETERINARY ACADEMY**

**FACULTY OF VETERINARY MEDICINE**

**REPORT OF CLINICAL PRACTICE**

SMALL ANIMAL SURGERY

TITLE OF THE REPORT

TITLE OF THE CLINIC

**Student**: Name Surname

VI y. x gr.

**Practice Supervisor**: Name Surname

Kaunas 20…

EXAMPLE OF PATIENT REGISTRATION JOURNAL

|  |
| --- |
| **No.1.** |
| **Date** |  |
| **TYPE OF ANIMAL** *Species, breed, gender, age/date of birth, body weight*. | Dog, female, crossbreed, 8 years old, 15 kg |
| **THE DETAILS OF THE CASE** *Detailed anamnesis: clinical symptoms, information provided by the owner* | According to the owner, a few hours ago, the bitch was running loose in the yard and ran back, squealing with her front left leg raised. Noticed bleeding from the foot. |
| **T0, P, RR.****Symptoms***Every day clinical examination results written here, symptoms most typical for diagnosis**Clinical examination (mucous membranes color, capillary refill time, respiratory rate, heart rate, body condition, rectal temperature, abdomen palpation, chest auscultation, palpation of superficial lymph nodes, defecation, urination, appetite).* | Clinical examination: heart rate - 140 times/min Respiratory rate – very fast with open mouth, mucous pink, capiliary refill time - 1s., Urinates normally, defecates with formed feces. Abdominal palpation is nothing special. Orthopedic examination performed: Gait: limping on the front left leg, grade V limping. Mini neuro study - no change. Front right, rear right and left legs without change. On the front left leg in the interdigital space between 3-4 fingers we can see ruptured wound, bleeding. Wrist, elbow, shoulder joints without change. General anesthesia is required for suturing the wound |
| **BLOOD, URINE, PUNCTURE, CYTOLOGY AND OTHERS TEST RESULTS, INTERPRETATION OF RESULTS (if performed)***(Indicate the results obtained* ***by highlighting*** *the changes of the results. The obtained results are indicated, with changed results highlighted in bold; if tests were performed – specify which ones (e.g., blood morphology or biochemistry). If referring to a blood morphological test and there are deviations, specify* *– which indicator, the obtained result, reference (normal) values, and the type of change (e.g., if the white blood cell count was higher than normal – indicate the count and define it as leukocytosis, etc. If lower than normal red blood cell count, hematocrit, or hemoglobin values are observed – anemia. Also, understand what this means).**If a biochemical blood test was performed – indicate the tested indicators, their reference values, the obtained result, name the condition (e.g., if GLU is higher than normal – hyperglycemia, etc.), explain its significance and possible causes. Similarly, for urine tests or imaging diagnostics – specify what was performed, how it was done, what was found, and what it means.* | Morphological and biochemical (UREA, CREA, GOT, GPT) blood tests were performed. No deviations from the norm have been identified. |
| **METHOD USED FOR THE TEST (SPECIFYING THE NAME OF THE DEVICE AND THE TECHNIQUE USED);** | Describe the sample collection and testing methodology, i.e., how the sample was taken and processed – for example, *the magnification used for microscopy; preparation and staining of a blood smear; parasitological examinations; detection of worm eggs or larvae in the samples*. |
| **SPECIAL EXAMINATION METHODS (if performed)*****(*** *X- ray (indicate projections and visible changes)**Ultrasound examination (indicate area and visible changes)**MRI or CT (indicate area and visible changes) and so on* | X-ray projections of DP and ML of the front left foot area were performed. Fractures not identified. Visible soft tissue swelling. |
| **Diagnosis***(****The exact diagnosis.*** *If changes every day – note the date and new diagnosis.**(Castration or OHE is not a diagnosis).* *(It is essential to pay attention and not to confuse a diagnosis with the procedures performed; do not provide symptomatic diagnoses – e.g., diarrhea (this is a symptom, not a diagnosis), etc. In the notes section, indicate how a particular diagnosis is reached – for example, “allergy” – by exclusion, and be able to explain this process, etc.)* | Lacerated wound |
| **TREATMENT AND PREVENTION**(*Full description of used materials and procedures in treatment, performed surgical and diagnostic procedures with a brief methodical description.)**(Clearly indicate the medication, active substance, strength, appropriate dosage, how to use it, how many times per day, and the duration of the treatment course.)* | Animal sedated:Cepetor 1 mg / ml inj. susp. 0.3 ml i.m. Ketamidor 100 mg / ml inj. sol. 0.3 ml i.m. Butomidor 10 mg / ml inj. sol. 0.2 ml i.m. After 15 min. Intravenous catheter was put in.Induction performed in:Propofol 10 mg / ml inj. susp. 2 mg / kg iv to effect.Intubated with a size 6.5 endotracheal tube after reflex disappearance, inhaled anesthesia sevoflurane 2% + oxygen 100%.The surgical wound was developed using aseptic technique. Wound edge renewed. Remove necrosis tissue. Soft tissues and subcutaneous sutures are sewn with PDX 3-0 thread with plain knot sutures. Skin - 4-0 polypropylene thread with simple knotted sutures. The foot is lubricated with carbacept, bandaged with a bandage and a protective “Petflex” bandage is applied. After the operation, the animal was disconnected from the inhalation anesthesia machine. Extubated at the onset of the swallowing reflex.For pain control: meloxidil 1.5 mg / ml p.o. dosed in kilograms 1xd 7 d. in a rowSynulox RTU 140/35 mg inj. susp. inject 0.75 ml s.c. 1xd 7 d in a row.Wound dressing 2xd. Wash a wound with sterile saline, dry. Apply Vetramil ointment. |
| **Prognosis and/or outcome of the disease**Example Recovered | Unknown |
| No. 2. |

**EXAMPLE of Annex 4**

**LITHUANIAN UNIVERSITY OF HEALTH SCIENCES**

**VETERINARY ACADEMY**

**FACULTY OF VETERINARY MEDICINE**

**REPORT OF CLINICAL PRACTICE**

LARGE ANIMAL INTERNAL DISEASES

TITLE OF THE REPORT

TITLE OF THE CLINIC

Student: Name Surname VI y. x gr.

Practice supervisor: ….. Name Surname

Kaunas 2020

|  |
| --- |
| **No.1.** |
| **Date** |  |
| **TYPE OF ANIMAL** *Species, breed, gender, age/date of birth, body weight.* | Cattle, female, Lithuanian black and white,About 600 kg5 years old  |
| **THE DETAILS OF THE CASE** *Detailed anamnesis: clinical symptoms, information provided by the owner* | Anamnesis data were taken from the herd management program. From the Milking Robots Health Report:Increased milk protein to fat ratio -1.87, decreased cow activity (ruminating) - up to 380 min.and productivity (milk yield) - 32 l., the former 42 l.Fresh dairy cow, 25 days post partum. |
| **T0, P, RR.****Symptoms***Every day clinical examination results written here, symptoms most typical for diagnosis**Clinical examination (mucous membranes color, capillary refill time, respiratory rate, heart rate, body condition, rectal temperature, abdomen palpation, chest auscultation, palpation of superficial lymph nodes, defecation, urination, appetite).* | T0 39,0 Frequency of rumen contractions - 2 times/2 min (moderate)CMT testnegative; Feces of solid consistency. The Abomasum displacement test (auscultation and percussion) is negative. |
| **BLOOD, URINE, PUNCTURE, CYTOLOGY AND OTHERS TEST RESULTS, INTERPRETATION OF RESULTS (if performed)***Indicate the results obtained by* ***highlighting*** *the changes of the results* | **BHB – 2,8 mmol/l****Glucosis- 1,9 mmol/l** |
| **METHOD USED FOR THE TEST (SPECIFYING THE NAME OF THE DEVICE AND THE TECHNIQUE USED);** | **Describe the sample collection and testing methodology**, i.e., how the sample was taken and processed – for example, the magnification used for microscopy; preparation and staining of a blood smear; parasitological examinations; detection of worm eggs or larvae in the samples. |
| **SPECIAL EXAMINATION METHODS (if performed)***X- ray (indicate projections and visible changes)**Ultrasound examination (indicate area and visible changes)**MRI or CT (indicate area and visible changes) and so on* |  |
| **DIAGNOSIS***The exact diagnosis**If changes every day – note the date and new diagnosis.**(Castration or OHE is not a diagnosis).*  | Clinical ketosis |
| **TREATMENT AND PREVENTION***Full description of used materials and procedures in treatment, performed surgical and diagnostic procedures with a brief methodical description.* | Intravenous infusion:Fresenius - 1000.0 ml;Glucose 25 percent. + Methionine - 500.0 ml; Metabolase - 500.0 ml;Multivit Mineral -20.0 ml i.m.Rifen-20.0 ml i.m.one time per day, 3 days in a row.Oral paste Rumen Starter 1 syringe (300g.), for 3 days in a rowWithdrawal period (of medications) |
| **PROGNOSIS AND/OR OUTCOME OF THE DISEASE***Example Recovered* | Healthy |
| **No. 2** |
| **Date** |  |
| **Type of animal** (*Species, breed, gender, age/date of birth, body weight)* | Cattle, female, Lithuanian black and white,About 600 kg6 years old |
| **The details of the case** *Detailed anamnesis: clinical symptoms, information provided by the owner* | The cow started to have diarrhea, the feces were abundant, unformed, gray in color, and air bubbles were visible on the surface of the feces. The cow is fed corn silage, bell grass hay, and receives 4 kg of flour (wheat and barley) in the morning and evening. A couple of days ago the amount of flour was increased, previously 3 kg twice a day. Milk yield decreased slightly, but the farmer noticed a decrease in milk fat content. The cow has a good appetite. The cow is pregnant, about 90 days after insemination. |
| **T0, P, RR.****Symptoms***Every day clinical examination results written here, symptoms most typical for diagnosis**(heart rate, respiratory rate, CRT mucoous membranes color, urination, defecation, abdominal palpation)* | T-38.8Frequency of rumen contractions - 3 times/2 min (moderate)CMT test negative; feces liquid, watery, with bubbles on the surface. Abomasum displacement (auscultation and percussion) test negative. |
| **BLOOD, URINE, PUNCTURE, CYTOLOGY AND OTHERS TEST RESULTS (if performed)***Indicate the results obtained by highlighting the changes of the results* | BHB – 0,6 mmol/l**Glucosis– 5,2 mmol/l** |
| **METHOD USED FOR THE TEST (SPECIFYING THE NAME OF THE DEVICE AND THE TECHNIQUE USED);** | **Describe the sample collection and testing methodology**, i.e., how the sample was taken and processed – for example, the magnification used for microscopy; preparation and staining of a blood smear; parasitological examinations; detection of worm eggs or larvae in the samples. |
| **SPECIAL EXAMINATION METHODS (if performed)** *X- ray (indicate projections and visible changes)**Ultrasound examination (indicate area and visible changes)**MRI or CT (indicate area and visible changes) and so on* | Adjusted cow ration: no more flour, this will be given then stops diarrhea gradually increasing the flour amount from 1 kg to 3 kg twice a day. The amount of corn silage in the diet was also reduced. The cow is assigned rumen buster: Rumen rocket - 100g 1 x, per d. 3 days in a row.; Soda - g, 1 x per day, 5 days in a row; Farmatan - 200g 1x was prescribed to stop diarrhea.For intravenous therapy:Ringer Fresenius - 1000.0 ml.Introvit B complex - 15 ml, every other day 3 times.Withdrawal period (of medications) |
| **DIAGNOSIS***The exact diagnosis**If changes every day – note the date and new diagnosis.**(Castration or OHE is not a diagnosis).*  | Rumen acidosis |
| **TREATMENT AND PREVENTION***Full description of used materials and procedures in treatment, performed surgical and diagnostic procedures with a brief methodical description.* |  |
| **PROGNOSIS AND/OR OUTCOME OF THE DISEASE***Example Recovered* | Healthy |
| No.3 |

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03-6-2025 Prot. No. . VAF10-10

Annex 9

**REQUIREMENTS FOR CLINICAL PRACTICE REPORT**

1. Clinical Practice Report Parts (4 Annex, 5 Annex, 6 Annex, 10 Annex) shall be uploaded in LSMU Moodle course Clinical Practice (documents shall be uploaded to pdf format) at the time specified by the coordinator.
2. In the title of the documents, it is necessary to indicate the report part, student ‘s name, surname (example: **1. Obstetrics Small A. N. Surname**). The document uploaded only in pdf format and 7 parts of all report are uploaded in the separate documents

**CONFIRMATION OF THE CLINICAL PRACTICE INDEPENDENCE OF PRACTICE REPORT (Annex 4, Annex 5 and Annex 6) SHALL be signed and uploaded in a separate document (all parts of the report are listed) (Annex 10).**

3. **The report shall contain all the necessary parts**:

1. Small Animal Obstetrics, Reproduction and Reproductive Disorders.

2. Large Animal Obstetrics, Reproduction and Reproductive Disorders.

3. Small Animal Surgery;

4. Large Animal Surgery;

5. Small Animal Internal Diseases;

6. Large Animal Internal Diseases;

7. Small Animal Infectious Diseases (7.1. Infectious Diseases) (7.2. Parasitic Diseases)

8. Large Animal Infectious Diseases (8.1. Infectious Diseases) (8.2. Parasitic Diseases).

9. Veterinary Pathology;

Each report part should be provided at Annexes 4, 5, 6, 10. In the absence of at least one report part the report (Annexes 4, 5, 6, 10) is not evaluated;

Each part of the practice report (*excep*t Veterinary Pathology and Veterinary Parasitology) shall have reflective analytical analysis. They shall be written in a document (Annex 6).

If, during the assessment of the Report, academic dishonesty (copying, plagiarism, duplication or falsification of data) is detected, action is taken in accordance with the rules of Section 12, Chapter XIV of the Regulations for Studies of the Lithuanian University of Health Sciences.

**Structure of clinical practice report**

Each mandatory part of the report shall be completed in the Clinical Practice Report form (Annex4, 5, 6). The report shall be written in English, in addition to clerical and factual errors and to meet today's English spelling and punctuation requirements. The text should be written with a computer on one side of the standard A4 (210 x 297 mm) white paper sheet, page layout *Orientation* - *Landscape*. The text shall be assembled using a standardized system of signs "Unicode“font Times New Roman 10/12 point standard code table characters. Some parts of the text may be written in italics (*italic*), for example, *Latin terms*.

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **The report part** | **Small animal clinic** | **Large animal clinic or farm** |
| 1. | Animal Infectious diseases  | 10 | 6 |
| * 1. Infectious diseases, zoonosis
 | 5 | 3 |
| * 1. Parasitic diseases
 | 5 | 3 |
| 2. | Animal obstetrics, reproduction and reproductive disorders; | 8 | 15 |
| 3. | Animal surgery | 7 | 5 |
| 4. | Animal internal diseases | 16 | 16 |

The report does not need to be printed.

The title of different sections shall start on a new page. The section headings are written in capital letters, size 12 in bold font (***bold***) and sub - lowercase, size 12 in bold.

**Cover Sheet (for each part separately of the report)** (*Annex 4*)**:** 1. Small Animal Obstetrics, Reproduction and Reproductive Disorders; 2. Large Animal Obstetrics, Reproduction and Reproductive Disorders; 3. Small Animal Surgery; 4. Large Animal Surgery; 5. Small Animal Internal Diseases; 6. Large Animal Internal Diseases; 7. Small Animal Infectious and Parasitic Diseases 8. Large Animal Infectious and Parasitic Diseases; 9. Veterinary Pathology;

Table 1. Number of patients required to prepare the report.

Each student must complete the Patient Registration Journal (Annex 4) independently, describing clinical cases in their own way, fully answering all the items provided.

**It is forbidden to use the *patient registration system in clinics* by completely copying it in Patient Registration Journal and submitting in it as your personal data. In Patient Registration Journal, all cases presented must be described individually for each student. Clinical cases may be repeated but must be described and submitted individually for each student.**

**DESCRIPTION OF CLINICAL PRACTICE REPORT PARTS:**

1. **ANIMAL INFECTIOUS DISEASES**
2. **INFECTIOUS DISEASES, ZOONOSIS**
	1. **DURING THE PRACTICE, THE STUDENT MUST:**

1.1.1. familiarize with the most common infectious diseases and properly register these diseases (if required by observation); collect a detailed anamnesis of sick animals and properly fill in the patient ‘s registration journal.

* + 1. perform a general clinical examination of an animal;
		2. select appropriate diagnostic tools to diagnose infectious diseases and evaluate the results;
		3. take blood and perform morphological, biochemical, serological tests and evaluate the results;
		4. take a sample of skin, hair, fluids, faeces, tissues or other and perform examination based on the diagnostic tools used to diagnose the disease. Also, fill a sending document to the laboratory and properly prepare the sample for shipment;
		5. diagnose the disease according to results of performed tests and make differential diagnoses;
		6. create a treatment plan for infectious disease based on test results;
		7. assign appropriate preventive measures for prophylaxis of infectious disease (e.g. deworming, preventive measures against ectoparasites, vaccination), create vaccination plan and perform vaccination;
		8. evaluate biological protection measures applied in reception, examination room, isolation room, farm etc. depending on the practice place and conditions;
		9. perform disinfection, deratization, disinsection (if applied in the base of practice);
		10. provide suggestions on biological protection if measures taken are considered insufficient or inappropriate.
		11. **describe the required number of patients provided in Table 1.**
1. **PARASITIC DISEASES**

**1.2. DURING THE PRACTICE, THE STUDENT MUST:**

1.2.1. familiarize with parasitic diseases, participate and acquire practical skills in their treatment and control;

1.2.2. collect a detailed anamnesis of the sick animals and properly fill in the patient’s registration journal;

1.2.3. perform a general clinical examination of an animal and compile a list of differential diagnoses;

1.2.4. choose appropriate diagnostic tools and methods, and establish a diagnosis;

1.2.5. prescribe appropriate treatment and preventive measures;

1.2.6. during small animal practice, familiarize with all the parasitic diseases of the skin, tissues and blood, respiratory tract and digestive tract of small animals, their diagnosis, treatment and prevention methods;

1.2.7. during the large animal practice, familiarize and understand the most common skin, digestive tract, lung or other parasitosis of pigs, large and small horned animals, horses, fur animals, rabbits or birds, and acquire skills in their diagnosis, treatment and prevention;

1.2.8. familiarize with registered and used antiparasitic drugs in Lithuania, acquire skills of their selection, prescription and use.

1.2.9. **describe the required number of patients provided in Table 1.**

**1.3. THE STUDENT MUST PROVIDE IN THE INFECTIOUS DISEASE REPORT:**

1.3.1. animals (large and small) examined (independently, assisted or only observed) and treated for infectious and parasitic diseases during practice by registering them in the patient’s registration journal according to the requirements set out in Table 1;

1.3.2. cases of different (recommended) diseases and to correctly fill in all sections of the patient’s registration journal;

1.3.3. analysis of clinical cases and their assessment (Appendix 5) describing diagnosis, treatment, prevention or other (improper diagnostic method, prescribed ineffective drug or not all necessary drugs prescribed, inappropriate duration of the treatment course, insufficient preventive measures or informing clients, etc.) disadvantages;

1.3.4. reflection (only about infectious diseases).

* 1. **AFTER THE PRACTICE STUDENT SHALL BE ABLE TO:**
		1. explain and critically evaluate the epidemiological situation of infectious diseases and its dynamic;
		2. properly fixate an animal and perform a clinical examination;
		3. select appropriate diagnostic tools;
		4. send the samples to laboratory and evaluate the received results; take samples and evaluate the results of blood, urine, faeces, bacteriological or other special examinations;diagnose the disease and make a differential diagnosis;
		5. choose the right treatment and preventive measures;
		6. explain which diseases could be prevented by vaccination, prepare a vaccination plan, properly perform vaccination, introduce the animal ‘s owner with the side effects of the vaccination;
		7. explain the diagnosis, treatment, prevention, control and eradication of infectious diseases;
		8. if necessary, properly perform a euthanasia of sick animal according to the animal welfare law; give the recommendations to the owner about his animal;
		9. properly fill the patient ‘s registration journal, disinfection journal, vaccination report, used veterinary medicine act, unused veterinary medicine act, animal euthanasia act and etc.;
		10. properly dispose the contaminated waste, tissues, syringes, needles according to the biosafety requirements and proper disposal requirements;
		11. know biosecurity requirements;
		12. know and be able to draw up schemes for the treatment and prevention of parasitosis, including the selection of suitable drugs and their combination with other drugs and the necessary means;
		13. properly inform animal owners about parasitosis and their prevention and elimination measures;

1.4.16. After completing practice, the student must be ready to independently provide prevention and treatment services for the most common parasitosis.

* 1. **REPORT OF PRACTICE WILL BE ASSESSED REGARDING ACHIEVED RESULTS:**

1.5.1. whether all sections of the patient’s registration journal are properly filled out (infectious diseases that occurred during practice. If there were none, diseases previously identified at the place of clinical practice, based on accumulated disease histories or properly collected and detailed anamnesis). *Vaccinations as cases cannot be included in the patient’s registration journal, vaccination schemes are presented in reflection*;

1.5.2. whether diagnostic procedures are correctly selected and described in detail;

1.5.3. whether an accurate diagnosis has been established (if it is not confirmed by the results of the tests, it is only suspected);

1.5.4. how the course of treatment was reasonably drawn up, the treatment was organized and whether preventive measures were applied, preventing further recurrence of the disease;

1.5.5. whether biological safety measures were properly applied and described at the place of practice (described in the reflection);

1.5.6. whether the prognosis and/or outcome of the disease is indicated;

1.5.7. whether deficiencies in diagnosis, therapy and prevention are described correctly and in detail in the case analysis (Appendix 5) by analyzing each case from the patient’s registration log;

1.5.8. whether a reflection of infectious diseases presented and described in detail.

**1.6. REQUIREMENTS FOR REFLECTION (MIN. 500 WORDS, FREE FORM). IN A SEPARATE DOCUMENT (ANNEX 6), THE STUDENT MUST PRESENT A REFLECTION ON THE PRACTICE OF THE SUBJECT OF INFECTIOUS DISEASES OF ANIMALS AND DESCRIBE:**

1.6.1. evaluate and describe the biological safety measures applied at the practice site (e.g. quartzing, de-carpeting, etc.). Why exactly are such disinfection measures applied, as disinfection, deratization or other measures are often carried out in order to reduce the risk of possible factors of disease spread. What biosafety deficiencies have you observed at the clinical practice site?

1.6.2. fluently describe applied preventive measures, vaccination schemes. Describe what diseases and when the animals were vaccinated;

1.6.3. choose one of the most common diseases in your clinical practice and using the epidemiological triad model (pathogen, susceptible animals, environment) describe how this disease appeared in the animals you saw, what typical atypical symptoms were found, what treatment was most appropriate, etc., compare with the scientific literature information provided. Provide case analysis based on the Evidence Based Veterinary Medicine (EBVM) strategy. Include the patterns of the selected disease (prevalence among age groups, sex, breed, seasonality). Graphically represent the frequency of occurrence of the selected infectious disease in 12-24-month period (if possible, refer to past disease histories in patient records, if not, refer to months of practice in the analysis for cases encountered only during your clinical practice).

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|  No. | **Report evaluation criteria** | **Parasitic diseases****(50%)** | **Infectious diseases****(50%)** |
| 1. | The required number of patients (indicated in Table 1) is presented and described in the patient‘s registration journal, all fields are filled in correctly. | 0-3 | 0-3 |
| 2. | An analysis of the cases described in the patient‘s registration journal (Appendix 5) was presented and performed. | 0-4 | 0-3 |
| 3. | The reflection is presented according to the specified requirements. | 0 | 0-3 |
| 4. | The structure and formalization of the report meet the requirements. | 0-3 | 0-1 |

**The final grade of infectious diseases part is calculated according to the formula: Infectious diseases (50%) + parasitic diseases (50%) = 100%.**

**2.ANIMAL OBSTETRICS, REPRODUCTIVE DISORDERS**

**2.1. LARGE ANIMAL OBSTETRICS AND REPRODUCTIVE DISORDERS**

**2.1.1. During the Practice the student should perform:**

2.1.1.1. to identify estrus (heat) by the external signs of females. According to the clinical changes of the reproductive organs evaluate the period of estrus (beginning, middle, end). To select the right timing for natural mating (or artificial insemination);

2.1.1.2. based on the received data of the computerized herd management system (mobility, milk quantity, electrical conductivity, duration of rumination etc.) or based on animal clinical signs to evaluate the condition of animal and relate it to the reproductive function (healthy, pathology). If it is a pathology, specify it;

* + 1. **To perform at least one of the following:**
			1. determine cow pregnancy by rectal palpation or ultrasound examination up to 60 days after natural mating or artificial insemination;
			2. determine mare pregnancy by ultrasound examination up to 30 days after natural mating or artificial insemination;
			3. determine sheep pregnancy by ultrasound scanning 45-90 days after natural mating;
			4. determine sow pregnancy by ultrasound scanning 45-50 days after natural mating or artificial insemination;
			5. to identify the signs of the approaching female delivery, prepare the female for it and evaluate the prognosis of delivery. In case of dystocia ensure obstetric care (without surgical intervention);
			6. to organize the monitoring of the *postpartum* period and to diagnose (with additional devices) pathologies of the *postpartum* period (subinvolution, uterine infections, metabolic disorders), prescribe and apply treatment;
			7. to perform a clinical examination of the reproductive system of an infertile female (no heat observed until the insemination time). Assess the condition of uterus and ovaries of cow and mare (type of anestrus, endometrium) by rectal palpation or ultrasound examination. Prescribe the appropriate treatment;
			8. to insert a catheter into the uterus of a cow or mare (due to sampling or applying medicine);
			9. to perform veterinary care of neonatal (preventive features, care, assessment of pathology);
			10. to perform a clinical examination of the mammary gland for mastitis and in case of pathology prescribe treatment. Correct sampling of milk for pathogen identification;
			11. **the required number of patients presented and described in the report (as presented in Table 1).**

**2.1.3. After the Practice the student should be able to:**

* + - 1. to predict (motivated) and assign the time of artificial insemination (motivated);
			2. to determine the pregnancy of females (if possible, illustrate the pregnancy with an ultrasound image);
			3. to select, provide and perform the obstetric emergency care (preparation of the animal, premedication, applying of obstetric loops, lubrication, restoration of limbs etc.);
			4. to diagnose and differentiate the pathologies of the uterus in the *postpartum* period, prescribe treatment;
			5. to diagnose type of *anestrus* and prescribe treatment;
			6. be able of catheterize the uterus (infuse of medicine, take samples);
			7. to clean the airways of neonatal, disinfect the navel (diagnose and treat pathologies of neonates);
			8. to conclude a motivated treatment plan for the mammary gland and apply treatment (using medicine or physiotherapy – cold ointments, frequent milking, monitoring of treated cows’ milk);
			9. to fill out the cover letter for microbiological examination (of mucus and milk);
			10. to apply treatment to the mammary gland (correct application and organization of milking of sick cows).
			11. to perform an ultrasound examination and/or interpret the obtained examination data.

**2.1.4. The Practice report will be evaluated based on:**

* + - 1. how the clinical practice plan has been completed (at least 6 items specified in “During the Practice the student should perform”);
			2. how many animals were treated during the clinical practice (patients’ number is given in Table No 1);
			3. how the treatment plan was concluded (whether the right medicine and instruments were selected);
			4. how reasonable is the treatment outcome (whether the treatment strategy match the outcome);
			5. completeness of performed actions.

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| **No.** | **Criteria of evaluation of the practice report**  | **Grades** |
| 1. | The required number of patients (indicated in Table 1) provided and described, and all fields are filled. | 0-5 |
| 2. | A case study (Appendix 5) of patient registration log presented and described. | 0-3 |
| 3. | The Reflection is presented according to the specified requirements. | 0-2 |

**2.1.5. A Reflection of the experience gained in Practice (min 500 words)**

In a separate document (Annex 6), the student presents an analysis (epicrisis) of one case gained at clinical practice. It should reflect:

1) What was the purpose of seeking help; 2. Anamnesis; 3. Clinical data, signs (what veterinary actions were performed, what was the purpose, what symptoms were diagnosed); 4. Differential diagnosis from other diseases; 5. Motivated definition of the condition (disease); 6. Prescribed treatment and reason for prescribing; 7. Predicted outcome; 8. Personal experience (what is the difference between practical and theoretical knowledge, what are the benefits for veterinarian).

**2.2 ANIMAL OBSTETRICS, REPRODUCTION AND REPRODUCTIVE DISORDER OF SMALL ANIMAL**

**2.2.1. During the clinical practice the student shall perform:**

2.2.1.1. assist in the orchiectomy surgeries of cat and dog , study of the futher treatment plan (medications, recommendation) and surgical techniques.

2.2.1.2. assist in ovarian hysterectomy / ovarioectomy surgeries of dog and cat for the treatment of suspected uterine pathologies (CEH, pyometra, endometriosis, ovarian cysts) and properly evaluate the performed examinations, study surgical techniques, medications and prescriptions for further treatment of the disease;

2.2.1.3. to assist in the surgical treatment of mammary gland diseases and to properly evaluate the performed examinations, study surgical techniques, rmedications and prescriptions for further treatment of the disease;

2.2.1.4. to examine the pregnant bitch or queen, to evaluate the ultrasound examination to assess the viability of the puppies/kittens (heart rate);

2.2.1.5. do reproductive system examination of cats and dogs (include reproductive organs examination, reproductive system evaluation with diagnostic machines (x-ray, ultrasonography), hormone ‘s tests);

2.2.1.6. **Describe 8 cases.**

**2.2.2. After completing the Practice, the student shall be able to:**

2.2.2.1. perform clinical and special examination of the dog/cat reproductive organs.

2.2.2.2. determine the period of pregnancy during the ultrasound examination;

2.2.2.3. evaluate pathological conditions of the uterus and ovaries: inflammation of the uterus, CEH, ovarian cysts, oncology of the reproductive organs;

2.2.2.4. to perform a diagnostic and treatment plan (include surgical or medical treatment) for the mammary gland's diseases;

2.2.2.5. to provide a mammary gland treatment plan, perform surgical or medical treatment;

2.2.2.5. interpratate P4, estrogen hormonal tests;

2.2.2.6. to provide reproduction care in case of parturition disoders.

**2.2.3. The Practice report will be assessed against:**

2.2.3.1. how the practice plan has been fully completed (all points mentioned above should be completed);

2.2.3.2. how many animals were supervised during the practice (8 patients: it means 1-2 cases for every topic, so it should not be more than 2 same cases or same procedures for each topic);

2.2.3.3. how the treatment plan is reasonably and properly prescribed, justified usage of antibiotics);

2.2.3.4. how medication is prescribed (in the prescription form);

2.2.3.5. consistent description of general anesthesia protocol and surgical technique during surgical interventions;

2.2.3.6. how medication is monitored during treatment;

2.2.3.7. whether appointments at home, post-operative care are clearly described;

2.2.3.8. student ‘s opinion and suggestions.

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| **No.** | **Criterion of practice report evaluation** | **Points**  |
| 1. | The required number of patients (indicated in Table 1) is provided. | 0-2 |
| 2. | All sections of the patient registration journal (Annex 4) are filled in correctly (*complete anamnesis, detailed descriptions of clinical examinations and special tests, description of surgical technique, appropriate drug dosages, indications and methods of application, appointments at home after surgical interventions*) | 0-2 |
| 3. | An analysis of the cases described in the patient registration journal (Appendix 5) is provided and described | 0-2 |
| 4. | *Reflection* provided according to the specified requirements. | 0-2 |
| 5. | *The structure and formalization* of the report meets the requirements. | 0-2 |

**2.2.4. Analysis of reflective experience gained in analytical practice (min. 500 words) what and how should be described in free form** shall be written in separate documents (Annex 6):

• the case is selected and the reasons for choosing such a treatment method and medication are analyzed in detail. The case analysis should not be simply a description of the case, you must write your opinion and indicate what you would do differently and why.

**3.VETERINARY SURGERY**

**3.1. VETERINARY SURGERY OF LARGE ANIMAL**

**3.1.1. During the Practice a student shall**:

* + - 1. Get acquainted with the surgical conditions of work and to be able to evaluate them and to know where the veterinarian carries out surgery operations:
			* Is there any dedicated and properly equipped room in the farm;
			* Is there any portable machine tool in the farm and if livestock are operable when fixed in this special machine tool;
			* Are livestock surgery operations performed at the animal location place, etc.

3.1.1.2. **I**dentify the criteria used when deciding to apply surgical treatment:

* based on anamnesis data and objective results of performed tests,
* when previously applied medical (pharmacological) treatment was unsuccessful or ineffective,
* based on the personal decision and long-term experience of the veterinarian (clinical supervisor),
* at the request of the animal owner,
* a combination of the listed criteria or other relevant arguments.

3.1.1.3. Find out how to maintain aseptic and antiseptic conditions and biosafety requirements during surgery. How to ensure this.

3.1.1.4. Assimilate anaesthesia methods which are used for the operation (drugs, equipment), to understand and assimilate the applications for pain control during the postoperative period, ascertain compliance about the animal welfare requirements during surgical manipulation and after.

3.1.1.5. To learn and master various bandaging techniques (warming and cooling compresses, pressure bandages, immobilizing bandages).

3.1.1.6. Assist the veterinarian and understand the essence of the operation (for what it's done, what uses for the anaesthesia, which access was applied, action and the completion of the operation – if implants, thread, seam and other material was used).

3.1.1.7. During the practice all operated (operated independently, assisted or observed) and treated animals according to the Large Animal Surgery program topics, have to be registered in the general journal of patient’s registration with specification about the own level of participation (operated independently, assisted, observed). All patients in the log section of the mentioned journal shall be fully and correctly described.

**Note:** **The student must present and describe 5 different cases in the report** (these may be 5 different surgical techniques for the same animal species or 5 treated animals of different species, e.g., large ruminant/their offspring, small ruminant/their offspring, adult horses/their foals, piglets/sows, camelids/their offspring, or a combination of these cases).

**3.1.2. After the Practice the student shall be able to**:

* + - 1. Follow bio safety requirements to be ensured about aseptic and antiseptics rules fulfilment.
			2. Perform local and general anaesthesia, monitoring the anaesthesia and the drugged animal settings, controlling postoperative pain.
			3. Perform routine operations: sew the wound, dehorning calves, and adult cattle, hoof trimming, castrate, open abdominal cavity for diagnostic laparotomy purpose.
			4. Explain about the surgical operation technique.
			5. To manage pain in the postoperative period;
			6. Ensure the implementation of animal welfare requirements during provision of veterinary services and advise animal owners on these issues.

**3.1.3. Practice will be assessed with the focus on the following criteria**:

* + - 1. If patient registration log sections in the journal (about the patients which are attributable to the surgical patients’ group in accordance with Large Animal Surgery program subjects) are completed properly:
			2. Serial number, date and relevant information about the animal (species, sex, breed, age, colour, weight, physical characteristics), specify the owner only with his consent.
			3. Detailed medical history (Beginning of the illness, clinical symptoms, the owner self-observations).
			4. General clinical examination findings (body temperature, quantitative and qualitative indicators of pulse, breathing, arterial pulsation, body parts deformations character (swelling, induration, if present the wounds – describe how they look and if there are secretions describe what they look like), etc.
			5. Accurate diagnosis corresponding to the clinical symptoms and examination findings (e.g., dug wound, sole ulcers, oblique diaphyseal fracture of metacarpus, laminitis and so on.). In this section it is unsuitable such diagnosis: hoof trimming, dehorning, castration, wound asepsis, etc., because it is not a diagnosis).
			6. Full information about the treatment (all measures which were used for the treatment, brief description about performed surgery method – here includes: method of anaesthesia, access, technique and completion of the operation, used sutures and suture materials, implants or other measures).
			7. Information about the endpoint of the disease and comments (maybe the student knew or has seen any other methods of treatment or surgery technique than was applied for the concrete patient).
			8. Is there a reflective analytical analysis of practice experience in the practice report

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| **No.** | **Criterion of practice report evaluation** | **Points**  |
| 1. | The required number of patients (indicated in Table 1) is provided. | 0-2 |
| 2. | All sections of the patient registration journal (Annex 4) are filled in correctly  | 0-2 |
| 3. | An analysis of the cases described in the patient registration journal (Appendix 5) is provided and described | 0-2 |
| 4. | *Reflection* provided according to the specified requirements. | 0-2 |
| 5. | *The structure and formalization* of the report meets the requirements. | 0-2 |

3.1.4. **Analysis of reflective experience gained in analytical practice *(****The recommended minimum is 1,000 characters or at least 300 words) what* ***and how should be described in free form*** shall be written in separate documents (Annex 6):

3.1.4.1. have had working conditions during clinical practice;

3.1.4.2. on which the decision to use surgical treatment is made;

3.1.4.3. wat aseptic rules were followed, when, what and how the antiseptic measures were applied.

3.1.4.4. what tasks he / she failed during the practice and why he / she failed: maybe the practice manager does not have a surgical practice, or he / she does not have enough skills, he / she does not have enough tools and conditions for surgical work, there are no patients for whom surgical treatment is indicated,

3.1.4.5. to provide an opinion on the analysis of which issues should be given more attention by the lecturers about large animal surgery during lectures and internships at the university (this point is only desirable but not evaluated).

* 1. **VETERINARY SURGERY OF THE SMALL ANIMALS**

**3.2.1. During the Practice a student shall**:

* + - 1. Become acquainted with the specifics and rules of work in practice in the Surgery Department of the Small Animal Clinic.
			2. Master aseptic and antiseptic rules in a small animal clinic.
			3. Master and be able to explain how and why biosecurity is being respected, be aware of how biosafety is ensured in a small animal veterinary clinic.
			4. Perform an animal's clinical examination before the surgical procedure. To be able to evaluate and interpret the results of the animal's clinical examination, and special examination (blood tests, urine analysis, etc.).
			5. Provide emergency (first) aid to small animals (polytrauma, shock, heart failure, acute respiratory failure, gastric dilatation and volvulus-GDV, bleeding, occlusion of airways, etc.). Know what tools are needed for first aid. To master and explain the principles of first aid.
			6. Prepare small animals for surgical operations: soft tissue, ophthalmological, orthopaedical operations.
			7. Properly select the procedure location for aseptic and antiseptic procedures.
			8. Catheterization the urinary bladder of small animals (dogs and cats) male and female.
			9. Place a venous catheter into *v. saphena* and *v. cephalica*.
			10. Take part in the evaluation and interpretation of visual diagnostic evaluation results and writing reports.
			11. Manage infected and noninfected wounds (wound suturing, a use of drains, bandaging, forming a treatment plan).
			12. Perform examination and treatment of patients with orthopaedic and neurological diseases (to evaluate the walking, to evaluate the degree of lameness, to perform orthopaedic and neurological examinations, to perform diagnostic imaging, to interpret the results of the examinations, to form a treatment plan).
			13. Perform neutering (orchiectomy, ovariohysterectomy-OHE, ovariectomy-OE) of female and male (dogs and cats).
			14. Perform sedation and anaesthesia plan according to the species, breed, age and health status of the animal.
			15. Induce general anaesthesia (administer medications of sedation/anaesthesia, put a venous catheter, ensure proper fluid therapy, perform intubation, attach the animal to anaesthesia machine and vital parameters monitoring equipment)
			16. Perform anaesthesia monitoring of an animal (assessment of animal condition before general anaesthesia, monitoring of vital parameters during anaesthesia and awakening). To be able to explain how and why the vital parameters are changing, to be able to manage anaesthesia (change the dose of applied medications, if necessary, select additional medications).
			17. Perform limb immobilization by a bandage (Robert-Jones bandage, bandage using splits, etc.), in the case of fractures of limbs, splits, ligaments and tendons injury.
			18. Perform an ophthalmological examination and be able to interpret the results of the examination. Take part in making the treatment plan.
			19. Apply the principles of oncologic and reconstructive surgery in the treatment of oncological diseases in patients who require surgical treatment.
			20. Perform the muzzle (oral) cavity and dental examinations, perform the special examinations of this region. Interpret the examination results and make a treatment plan.
			21. Assist your supervisor (veterinary surgeon) during surgical procedures and operations.
			22. Obstetric patients and surgeries performed on them (e.g. castrations of females and males (elective and due to disease), etc.) cannot be described in the report.

**3.2.2. After the Practice the student shall be able to**:

* + - 1. Follow biosecurity requirements.
			2. Perform clinical, orthopaedic, ophthalmologic and neurological examination, to select the appropriate special examinations, to evaluate and interpret the results of special examinations. After evaluating the results of the examination, be able to make a list of differential diagnoses, to carry out the main (final) diagnosis and make a treatment plan.
			3. Ensure aseptic and antiseptic during surgical procedures and operations.
			4. Provide emergency (first) aid to small animals (polytrauma, shock, heart failure, acute respiratory failure, GDV, bleeding, occlusion of airways, etc.).
			5. Prepare animals and surgery room for surgical operations: soft tissue, ophthalmological, orthopaedic operations.
			6. Properly select the procedure location (operating room) for aseptic and antiseptic procedures.
			7. Do catheterization of the urinary bladder of male and female dogs and cats.
			8. Introduce a venous catheter into *v. saphena* and *v. cephalica.*
			9. Evaluate diagnostic imaging examination. Will be able to evaluate and interpret the results of diagnostic imaging.
			10. Manage the infected and uninfected wounds (introduction of drains, bandaging, forming a treatment plan).
			11. Perform castration (orchiectomy, ovariohysterectomy, ovariectomy) of female and male small animals (dogs and cats).
			12. Do a plan of sedation and anaesthesia based on the species, breed, age and health status of the animal.
			13. Induce general anaesthesia (administer medications of sedation / anaesthesia, put venous catheter, ensure proper fluid therapy, perform intubation, attach the animal to a machine and vital parameter monitoring equipment).
			14. Perform anaesthesia monitoring of animals (assessment of animal condition before general anaesthesia, monitoring of vital parameters during anaesthesia and awakening). Explain how and why the vital parameters change, to manage anaesthesia (change the dose of applied medications, if necessary, select additional medications for stabilization of animal condition).
			15. Perform limb immobilization by a bandage (Robert-Jones bandage, bandage using splits, etc.), in the case of fractures of limbs, splits, ligaments and tendons injury.
			16. Perform an ophthalmological examination and be able to interpret the results of the examination. Take part of making the treatment plan.
			17. Apply the principles of oncologic and reconstructive surgery in the treatment of oncological diseases in patients who require surgical treatment.
			18. Perform the muzzle (oral) cavity and dental examinations, perform the special examinations of this region. Interpret, the examination results, and to make a treatment plan and to do treatment.

**3.2.3. Practice will be assessed with the focus on the following criteria**:

If patients in the surgical group under the Small Animal Surgery Program have been properly filled in all patient logbook sections:

* + - 1. Serial number,
			2. Date,
			3. Required animal data (species, sex, breed, age, weight),
			4. Anamnesis,
			5. Clinical examination (mucous membranes color, capillary refill time, respiratory rate, heart rate, body condition, rectal temperature, abdomen palpation, chest auscultation, palpation of superficial lymph nodes, defecation, urination, appetite).
			6. Selection and performance of special tests (specifying which tests have been performed and which changes have been detected (orthopaedic, neurological, ophthalmological, dental examinations), selection of imaging diagnostics and descriptions of the tests (MRI, CT scan, ultrasound, X-rays), selection of laboratory tests).
			7. Choice of treatment (used treatments, a short description of anaesthesia, method of surgical operation technique, access, action, and termination of the operation, used suture materials, and implants, a prescription for selected medication, proper selection of tools for a procedure, proper pain control procedure).
			8. Indicated disease outcomes and remarks: recovered, continued treatment, died, euthanized. If the animal did not return to the clinic and the result is unknown, it should be written it is not known.

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| **No.** | **Criterion of practice report evaluation**  | **Points**  |
| 1. | The required number of patients (indicated in Table 1) is provided and described in the patient registration journal; all fields are filled in correctly. | 0-5 |
| 2. | An analysis of the cases described in the patient registration journal (Annex 5) is provided and described | 0-1 |
| 3. | *Reflection* provided according to the specified requirements. | 0-1 |
| 4. | Anesthesia protocols provided and fully filled out (*3 anesthesia protocols for operations of different pain levels*) | 0-3 |

* + 1. **Analysis of reflective experience gained in analytical practice (1,0 – 1,5 sheets) *what and how should be described in free form***:shall

Make three different anaesthesia protocols for three different kinds and pain level surgeries (for example OHE, osteosynthesis, GDV). Use these protocols during anesthesia and fill them according to the rules. Attach these three anesthesia protocols to the practice report. The cases must be seen during Practice. *Provide an analysis of all these three anesthesia protocols in a separate document (Annex 6) and describe*:

* Describe the criteria for the selection of the anaesthetic substances and the method of its application;
* If you were unable to choose the anesthetic agents, justify whether you would use the same medications.
* To asign ppatient’s into the risk groups of anaesthesia, describe the criteria you follow of assigning to the anaesthesia risk group;
* Describe the period of an awakening of animals (physiological parameters, behaviour, vocalization).

**After completing this task, answer the questions:**

1. How did you feel during anaesthesia and taking care of anaesthetised animal during procedures (did you feel safe, doubtful or worried)?
2. What did you learn from this task?
3. What conclusions have you made from this task?
4. What would you do differently if you had the same task in the future?
5. Would you recommend including this type of task in the future practice report?
6. **VETERINARY PATHOLOGY**

At the LSMU VA VPK Pathology Center, students can only perform necropsy if they do not have the ability to perform necropsy at their practice base.

Due to the necropsy at the LSMU VA VPK Pathology Center, the student shall arrange the date and time in advance with the staff of the Pathology Center by calling No. +370 37 362915.

The entire other part of the Veterinary pathology practice shall be performed by the student in her / his Practice Base (*small or large animals*).

**4.1. During clinical practice a student shall:**

* + 1. **Perform one Necropsy of animal cadaver** (ex. large animals, small animals, poultry, exotic animals, wild animals...) and **write Necropsy report (example is on Moodle)**. Necropsy and writing of necropsy report shall be done individually - it means one student per one animal cadaver. Necropsy report should be approved by signatures of the student and his Veterinary pathology clinical practice supervisor. **Necropsy reports should be written by computer.**
		2. In addition, a student should fill in the animal cadaver (examined) **Delivery letter for pathological anatomical examination (necropsy).** Delivery letters can be addressed to the Pathology Center of the Department of Veterinary Pathobiology, LSMU VA. The delivery letter should be approved by signature of the student.
		3. Prepare **Statistical analysis** from the last three-years period of animals which have died or euthanized in depot of clinical practice (*large or small animals’ clinics - student should choose).* Data analysis should be performed according to animal species, age, cause of death/euthanasia (diagnosis). Students should present information in tables or figures. At the end of work, the student should provide a brief summary of statistical analysis and conclusions. Statistical analysis should be approved by signatures of student and his Veterinary pathology clinical practice supervisor.*Note: if practice is performed at year 2024 statistical analysis should be carried out for 2021-2023 period (if practice is performed at year 2025 – for 2022-2024).*
		4. If the number of dead/euthanized animals per year is greater than 50, analysis can be made only according to one of last year’s cases.*Note: if practice is performed at year 2024, statistical analysis should be carried out for 2023(if practice is performed at year 2025 – for 2024).*
		5. Submit the information about animal origin wastes (*in small or large animal practice base – student should choose*) (animal cadavers, surgically removed tumors, other organs and tissues, including fluids (blood, exudates or transudate, etc.) management/destruction system in clinical practice depot/country. The student should describe the methods of animal origin wastes destruction in clinical practice depot; to specify, what kinds of temporary storage conditions are used for animal origin wastes (facilities, refrigerators, containers, disinfection etc.). **Information about animal origin wastes management/destruction** system in depot of clinical practice and **delivery letter for the destruction of animal origin destruction** should be approved the signature of the student.

**4.2. After completing the Practice, the student shall be able to:**

4.2.1. To independently perform a pathological anatomical examination of an animal carcass, identify pathological anatomical changes and formulate a final pathological anatomical (nosologically) diagnosis, explain the mechanisms of occurrence of established pathological anatomical changes, substantiate and explain the pathological anatomical diagnosis, compare it with the clinical diagnosis, evaluate

4.2.2. To Collect anamnesis, fill in the *Delivery letter (for pathological anatomical examination of animal cadaver (necropsy)*, fill in the extended report of the pathological anatomical examination of the animal carcass, decide independently which samples need to be taken from the animal carcass, properly record and pack them, fill in the sample consignment note and send it to the laboratory;

* + 1. Interpret the results of the obtained research, base them on theoretical knowledge, provide recommendations if necessary;
		2. To know and practically apply biosafety and hygiene requirements in the place of pathological anatomical examination of animal carcass;
		3. Indicate the appropriate method of disposal of animal carcasses and other animal *origin wastes*, complete the document required for the disposal of animal *origin wastes*. Indicate the appropriate method of disposal of animal carcasses and other animal by-products, complete the document required for the disposal of animal by-products.

**4.3. In the report of Veterinary pathology clinical practice students shall present:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Criterion of practice report evaluation** | **Points** |
| 1. | Statistical analysis (signed by student and his Veterinary pathology practice supervisor). | 0-4 |
| 2. | Necropsy report (signed by student and his Veterinary pathology practice supervisor). | 0-5 |
| 3. | Delivery letter (for pathological anatomical examination of animal cadaver (necropsy) (signed by student). | 0-0,5 |
| 4. | Information about animal origin wastes management/destruction and delivery letter for the destruction of animal origin destruction (signed by student) | 0-0,5 |

1. **ANIMAL INTERNAL DISEASES**

**(small and large animals)**

**5.1. During the Practice a student shall:**

5.1.1. Get acquainted and acquire practical skills in diagnosing different animal species noninfectious diseases to participate in the diagnosis of these diseases' treatment and the application of preventive measures.

5.1.2. Get acquainted and to acquire practical skills in the use of medicinal substances in different animal species.

5.1.3. Collect detailed disease anamnesis.

5.1.4. Access to all diseases occurring in small and large animal skin, gastrointestinal, respiratory, cardiovascular, urinary system, metabolic and other internal disorders and their diagnostic methods, treatment and prevention schemes and techniques used in Lithuania authorized veterinary medicines.

5.1.5. Make a general clinical examination of animals.Interpret blood, urine, and other special tests.

5.1.6. Diagnose the internal disease based on the medical history, clinical examination and special studies, to evaluate the disease prognosis.

5.1.7. Investigate the actual range (nomenclature) and pricing of toxicological tests that can be performed by an accredited laboratory (e.g., the National Food and Veterinary Risk Assessment Institute [NFVRAI], Laboklin) for feed or pathological material. Understand the requirements and be able to complete the cover letter/form for material sent for toxicological (or other) testing. Discuss the real situation and accessibility of additional testing with the Supervisor or clinic veterinarians.

5.1.8. Based on the data, develop treatment and prevention protocols for internal diseases in animals and participate in the treatment and prevention of these diseases.

5.1.9. Registered all treated patients in the patient register journal and fully and correctly fill in all sections of this journal.

**5.2. After the Practice, the student shall be able to:**

5.2.1. Follow biosafety requirements.

5.2.2. Ensure the implementation of animal welfare requirements for the provision of veterinary services and advise animal owners on these issues.

5.2.3. Correctly fill patient register journal.

5.2.4. Be able to collect detailed analysis for primary diagnosis of animal diseases.

5.2.5. Make clinical examination for different animal species, reasonably appoint diagnostic tests.

5.2.6. Be able to interpret the blood, urine, and other special test data results and use them for the diagnosis, prevention and treatment of internal diseases.

5.2.7. Determine disease diagnosis and prognosis, to evaluate the possible relationship between the internal diseases.

5.2.8. Understand and be able to explain all performed diagnostic, therapeutic and preventive procedures.

5.2.9. Be able to properly act in the suspect animal (s) poisoning case ‒ based on to the available data differentiate from infectious diseases, apply first aid measures, make diagnosis, apply detoxification measures, antidotes, use general supportive measures;

5.2.10. To be familiar with the most common types of poisoning in small and large animals in the country, as well as the available first aid and treatment measures.

5.2.11. Be able to respond appropriately to a suspected animal poisoning case – differentiate it from an infectious disease based on available data, apply first aid measures, establish a diagnosis, administer detoxification treatments, prescribe antidotes, and apply general supportive care measures.

5.2.12. Be able to send to a laboratory material for toxicological tests and interpret received results;

5.2.13. Know and be able to create different schemes of treatment and prevention of internal diseases including the appropriate medicine's selection and combination with other medicines and the necessary means, of animal owners’ information and education procedures.

5.2.14. Learn various medicines application methods for different kinds of animals.

**5.3. Practice will be evaluated according to the following criteria:**

5.3.1. If patient registration journals filled correctly according to:

5.3.2. Serial number, the required data on the animal (species, sex, breed, age, color, weight, and special details).

5.3.3. Detailed anamnesis (when animal got sick, clinical symptoms, host of observations).

5.3.4. General clinical trial data (body temperature, pulse quantitative and qualitative indicators, breathing, pulsation of the arteries, heart rate, etc.).

5.3.5. Clinical symptoms and data (blood and urine tests, ECG, X-ray, ultrasound and others.) Do not mention any symptomatic diagnosis (e.g., Diarrhea).

5.3.6. Informative therapy (the use of medications, diet and other therapeutic measures).

5.3.7. Indicate the notes of the disease (maybe a student knows or has seen a different method of treatment than that applied to a particular patient).

5.3.8. During the defense of practice - correct answers to the questions of the commission members

5.3.9. In the report, present and describe the required number of patients as indicated in Table 1.

|  |  |  |
| --- | --- | --- |
| **No.** | **Criterion of practice report evaluation** | **Points**  |
| 1. | The required number of patients (indicated in Table 1) is provided. | 0-2 |
| 2. | All sections of the patient registration journal (Annex 4) are filled in correctly  | 0-2 |
| 3. | An analysis of the cases described in the patient registration journal (Annex 5) is provided and described | 0-2 |
| 4. | *Reflection* provided according to the specified requirements. | 0-2 |
| 5. | *The structure and formalization* of the report meets the requirements. | 0-2 |

**5.4. The reflection (about 300 words or 1 page) shall be described in free form (**shall be written in separate documents)**.** This section should be written in free form. The student should describe which diagnostic and therapeutic procedures they learned to perform independently during the practice and could now carry out without a veterinarian’s assistance. They should reflect on what they were most successful at during the practice, which area they feel confident in, and which area they feel weakest in and need to further improve their knowledge and skills. The student should also note whether they deepened their understanding of medications, their use in treating diseases, and newly learned treatment methods and their justification. Additionally, they should provide their opinion on the practice bases, its duration, availability of diagnostic equipment, and patient flow.

1. Types of Electronic Signatures:

-Mobile signature,

-Smart-ID,

-Chip card or USB storage device [↑](#footnote-ref-1)