

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

---

STATE BIOTECHNOLOGICAL UNIVERSITY

Faculty of Veterinary Medicine

## **GUIDELINES**

---

on writing a graduation work for foreign students of the specialty  
**211 – VETERINARY MEDICINE**  
of the second (master's) degree

Kharkiv – 2023

---

УДК 371.214.114:619

Methodological recommendations for writing a graduation work for foreign students of specialty 211 - "Veterinary medicine" of the second (master's) degree - Kharkiv, 2023. - 18 p.

Recommendations regarding the preparation, structure, design and procedure for defending the diploma thesis are outlined. Instructions and requirements for conducting experimental and analytical studies are given.

For teachers-supervisors of diploma work and students of the faculty of veterinary medicine.

**COMPOSERS:** Tsymerman O.O., Vikulina G.V., Sinyagovska K.A., Naumenko S.V., Slyusarenko D.V., Yatsenko I.V., Nikiforova O.V., Matsenko O.V., Severyn R.V.

**REVIEWERS:**

professors Fedorenko S.Ya., Zhukova I.O.

Approved by the methodological commission of the faculty of veterinary medicine  
"\_\_28\_\_" \_\_February\_\_ of 2023 (protocol No. \_\_3\_\_)

Responsible for issuing  
dean of FVM, associate professor

O. Tsymerman

## Terms

The master's diploma's work is an integral part of the educational process at the "Master's" level in specialties 211 - "Veterinary Medicine".

The purpose of the master's diploma work is to deepen knowledge of fundamental and clinical disciplines and to obtain, on the basis of experimental research, results that have scientific and practical value for veterinary medicine. The topics of master's work are determined by the department in accordance with the direction of its scientific work. The topics of master's work are approved by order of the rector of the university.

The topics of master's work must meet the following requirements:

- relevance, compliance with the requirements of modern veterinary medicine and clinical veterinary medicine;
- presence among topics that require an original solution.

Basic research on the topic of work is carried out during internship. Places for completion of graduation work can be rural areas: enterprises of various forms of ownership, educational farms, state or private institutions of veterinary medicine (clinics, laboratories, etc.), meat processing plants, specialized laboratories that correspond to the areas of training of master's students and are bases of their practice.

An important component of the master's work is conducting the necessary laboratory studies (hematological, biochemical, bacteriological, virological, coprological, etc.).

Based on the results of scientific research, the master's student makes a report at the scientific conference of the relevant department (faculty, university) and publishes an article or theses, which are mandatory for the admission of the work to the defense.

The requirements for the quality of a master's thesis are:

- independence of scientific work, availability of economic analysis, meaningful illustrations (photographs, schemes, diagrams, etc.);
- originality of the scientific solution, work methods, substantiation of the obtained results, etc.;
- the reality of tasks and tasks expected to be performed, the possibility of using the obtained results in production and science;
- sufficient processing of special literature on the topic of work;
- the culture of design of work and graphic materials, their compliance with the requirements of state standards and current instructions.

All the listed indicators are taken into account during attestation when setting the final grade. The independence and originality of the solution to work tasks, its reality, are especially carefully evaluated.

## **Management and organization of work**

Supervisors of master's work are appointed from among the teachers of specialized departments who have the scientific degree of doctor or candidate of veterinary sciences and (or) the academic title of professor or associate professor with at least 5 years of teaching experience.

Managers are approved by order of the rector of the university. To ensure the quality of work management, the number of work per year for which a supervisor is assigned should not exceed 5 works for one stream of students in one calendar year.

The supervisor provides assistance to the master's student in the development of a work plan, research methodology, a calendar schedule indicating the sequence of execution of individual stages, recommends the necessary scientific literature and other sources according to the topic of the work, checks the quality and originality (anti-plagiarism) of the experimental part (a conclusion form on uniqueness is provided after checking the operation in the *Anti-plagiarism* program).

The completed master's diploma work together with the supervisor's feedback is submitted to the relevant department for preliminary defense (the feedback form is provided in Appendix D). The supervisor notes the positive and negative aspects of the work in written form in the form of a review, and also characterizes the master's student's attitude to the performance of the work.

If the goal and objectives of the master's diploma work are not fulfilled, the department, upon the proposal of the thesis supervisor, at its meeting considers the issue of the impossibility of admitting the work to defense.

Measures of influence on the quality characteristics of master's diploma work:

- current control over the progress of works by managers and the department;
- control by the dean's office and the academic department (compilation of inspection reports, etc.);
- expert checks of the quality of master's work, which are carried out by order of the scientific department and the rector's office;
- the conclusion of the head of the EC regarding the quality of master's diploma work, which is discussed at the academic council of the faculty, and on its behalf - at the departments.

The master's diploma work accepted by the department for defense is sent to the dean's office of veterinary medicine no later than 30 days before the date of defense.

Reviewers can be teachers of the faculty, as well as teachers of related departments and researchers of scientific research institutions who have the appropriate qualifications and work experience in the field of at least 5 years. The composition of reviewers is approved by the rector of the university at the request of the dean's office of veterinary medicine.

In his review, the reviewer notes the qualitative characteristics of the master's work, which are outlined above (the review form is provided in Appendix C).

## **Conducting experimental research**

Clinical-experimental research should be a mandatory element of the master's diploma work. Such studies are carried out in accordance with the existing requirements for the performance of scientific research experimental works in compliance with the rules for the design of experimental and control groups of animals, the minimum number of which in each group must be at least 5 animals.

Additional factors are applied to the animals of the research groups, certain therapeutic and prophylactic agents are prescribed, which can affect their health, the course of the disease, productivity, etc. At the same time, all changes in the condition of the animals of the experimental group compared to the control group, as well as among themselves, are taken into account.

Daily monitoring of the health of the animals, clinical examinations according to the generally accepted scheme with the recording of all changes to the curation sheets (T, P, R, the state of the cardiovascular system, respiratory system, digestive system, etc.) are mandatory, which are carried out in the same hours of the day. Animals are weighed in the morning, before feeding. At the same time, blood and other biological fluids are taken for laboratory tests.

The terms and frequency of laboratory studies are regulated by methods and plans of experiments.

It is mandatory to carry out statistical processing of digital research data with the determination of the arithmetic mean, standard deviation and (or) error of the arithmetic mean, determination of the reliable difference between groups, and, if necessary, other statistical indicators. For this, it is better to use the Microsoft Office Excel computer program, which can automatically calculate the above parameters. Also, if necessary, you can use non-parametric data evaluation methods.

The work also determines the economic efficiency or costs of carrying out the diagnostic and treatment measures used in the work.

## **Designing a master's thesis**

The recommended volume of the master's work is 50-60 pages of computer text (not including appendices), printed at 1.5 intervals with margins: top and bottom 2 cm each, right - 1.5 cm, left - 3 cm. Numbering pages from the bottom in the middle.

The master's diploma work must be written in the English language.

The text is placed on one side of A4 format printing paper (297 × 210 mm) using the Word text editor. Font "Times New Roman", size - 14 pt, line spacing - 1.5.

Headings are separated from the text by two spaces above and one space below. Signs, letters, symbols, designations that are not on the computer keyboard can be written by hand with black ink (paste). Paragraphs in the text begin with an indent equal to 1.5 cm.

Individual minor errors and graphic inaccuracies may be corrected with a proofreader and by applying corrections in the same place by hand with black ink or paste. Significant errors (more than 3 per sheet), smudges, damaged sheets, etc. are not allowed, the sheet is reprinted.

The list of used literature should contain at least 40-50 sources (including 15-20 foreign ones), published mainly in the last 10 years. Links to electronic sources of information are possible. The bibliographic description of the list of sources used in the thesis can be drawn up by the applicant at his choice, taking into account the National Standard of Ukraine DSTU 8302:2015 "Information and documentation. Bibliographic reference. General provisions and rules of drafting".

## **STRUCTURE OF THE MASTER'S THESIS** (Appendix B)

### **Title sheet**

The title page is the first page of the master's work, have to be completed according to Appendix A.

### **List of conventional abbreviations and designations**

### **Task** (appendix F)

### **Abstract** (appendix K) *given in English and Ukrainian languages*

The abstract is an abbreviated presentation of the content of the master's thesis with the main developments and conclusions.

They write an abstract, focusing on the new materials presented in the work, according to the following scheme:

- topic of work;
- volume of work (number of pages, illustrations, etc.);
- Keywords;
- relevance of the subject of the qualification work;
- purpose of qualification work;
- task of qualification work;
- object of study;
- subject of study;
- theoretical and practical significance of the obtained results;
- approval;
- publications by topic (if available).

Presentation of the material should be concise and accurate. Use expressions that are used in scientific and technical documents, standardized terminology, avoiding unfamiliar terms and symbols. Units of measurement are given in units of the international system.

The maximum length of the essay is up to 3 pages of computer text.

### **Introduction**

In the introduction, the relevance of the chosen topic is briefly explained, its choice is justified for the solution of specific problems in the field of veterinary

medicine, and the tasks of the work are formulated. The volume of this section is 2-3 pages of printed text.

### **1. Literature review**

In the literature review, only data from primary sources, which were studied by the student and are directly related to the topic of the work, are used. You should not use educational literature or references of other authors to the works used by them.

A literature review is written according to a pre-prepared plan, it should be systematic, integrated, and consistent. The analysis of the primary sources used and the literature used are given in chronological order. Critical remarks are argued with appropriate references to literary sources. In the presence of conflicting opinions of the authors on one or another issue, it is necessary to try to find the reason for the discrepancies: the result of methodological errors, the use of outdated equipment when conducting experiments, etc. The description of another author's work begins with a new paragraph. If the paragraph begins with a reference to the author of the work, then the initials and surname are also indicated, and the number under which this work is listed in the bibliography is written in square brackets. Next, the content of the work is briefly explained, as a rule, in one paragraph.

In general, literature data should be presented clearly, concisely, without distorting the data and views of the authors, reporting only the indicative, typical, relevant to the thesis. References to authors are usually given at the end of the paragraph with numbers in square brackets.

All information should be placed in chronological order. New publications on the topic of the work (not later than the last 10 years) are valuable. The sources of literature should be books, brochures, articles from magazines, collections of scientific works of domestic and foreign authors, dissertation abstracts, instructions, guidelines, recommendations and standards

The literature review ends with the section: "Conclusion of the literature review", in which the plan and level of solving the problem according to the literature are presented in a concise form. The total volume of the "Literature review" section should be 12-15 pages of printed text (but no more than 25% of the total volume of the work).

### **2. Own research**

The section "Own research" is the basis of the master's diploma work, the most important and therefore the most voluminous and should be 25-30 pages of printed text (approximately 50% of the total volume).

The section consists of a number of independent subdivisions: materials and methods of research; characteristics of the farm, institution, institution where the research was conducted; separate subsections on the detailed presentation of the obtained research results, their discussion.

#### **2.1. Materials and methods of research**

Describe the material used in the experiments (species of animals), specific methods and methods of research with reference to the authors, schemes of the conducted experiments, etc.

It should be remembered that the results of scientific research depend to a large extent on the choice of methods, the degree of their mastery and accuracy of execution, correctly drawn up schemes of experiments. Therefore, research methods should be

selected modern, taking into account the possibility of their use in specific conditions. This section also indicates the methods of applying curative and preventive measures, as well as monitoring their effectiveness.

### **2.2. Characteristics of the place of research**

They show general information about rural areas, enterprise, state or private institutions of veterinary medicine (clinics, laboratories, etc.), other enterprises on the basis of which the master's work was performed.

They indicate the leading branches of the economy, the level of their specialization, types of animals, their livestock, breed composition; productivity; animal husbandry technologies, their feeding; well-being from infectious diseases, diseases that are registered most often; main economic indicators and profitability of the farm.

### **2.3. The results of own research**

A section may consist of separate subdivisions. Systematization and detailed presentation of the results of experimental studies and observations should be carried out in these units. The material is presented in the form of a text, illustrated with tables, graphs, photographs, etc., which document and confirm the results of the work carried out.

Illustrations should have captions under the figures and serial numbers. The number of illustrations should be sufficient to explain the text. They are placed immediately after the text where they are mentioned for the first time or on the next page. All illustrations must be referenced in the text. It is appropriate to place the digital material obtained during research in compact tables.

### **2.4. Discussion of the results of own research**

In this section, the master's student describes a detailed analysis of the obtained research results, compares them with processed literature data.

### **2.5. Calculation of economic efficiency (or costs of veterinary measures)**

Determining the economic efficiency of veterinary measures carried out in the work is an important element of scientific research, because it emphasizes the relevance of the work performed. Calculations are carried out using methodological guidelines for determining economic losses and the economic effectiveness of veterinary measures.

### **Conclusions and proposals**

Conclusions and proposals for practice are divided into 2 separate points of work and are made only on the basis of own research in the form of briefly formulated and numbered theses. The number of conclusions depends on the volume of the conducted research and their significance.

Each conclusion thesis should contain specific digital data obtained as a result of the work. Proposals for production should be meaningful, capable of being implemented in the production of a specific farm or the practical activity of veterinary medicine doctors.

### **List of references**

Compiled by the acquirer at his choice, taking into account the National Standard of Ukraine DSTU 8302:2015 "Information and documentation. Bibliographic reference. General provisions and rules of drafting".

Examples of bibliographic descriptions for the list of used sources:



Description of a book with one author:

Mukhin M. I. Pedagogical views and educational activity of Kh. D. Alchevska. Kyiv, 1979. 184 p. Konnov O. F. Historical dynamics of artistic style: monograph. Kyiv: Publishing House of M. P. Drahomanov State University of Applied Sciences, 2015. 187 p.

Description of the book with two authors:

Bantyshev O. F., Selyuk A. V. A trap for the elite. Kyiv, 2004. 290 p. Galunko V.V., Mylko V.I. Man and the state: a monograph. Kyiv, 2014. 158 p.

Description of the book with three authors:

Penkovaya A. I., Legach E. I., Lotyn A. V. Homeopathy in Kharkiv. Kharkiv, 2004. 168 p. Denysenko M. P., Dogmachev V. M., Kabanov V. G. Lending and risks: academic. manual Kyiv, 2008. 213 p.

Description of a book with four or more authors (if necessary, all authors are listed in the title area):

Zaitsev A. E., Moskalenko V. F., Pylypchuk M. D., Yavorsky V. S., Dovbiy N. P. Milestones of development and establishment of the Kharkiv emergency medical center. Kharkiv, 2000. 56 p.

Description of the book without specifying the author (organization as author or collective author):

Ukraine in numbers. 2007: Stat. coll. / Govt. com. statistics of Ukraine. Kyiv: Consultant, 2008. 350 p. Aesthetic education of a teacher: a collective monograph. Kyiv, 2015. 172 p.

Description of a book translated from another language (one author):

Nietzsche F. Evil wisdom: trans. with German Moscow, 1993. 240 p. Nietzsche F. Merry science: trans. with German Moscow, 1999. 576 p.

Description of the online book:

Palekha Y. I., Lemish N. O. General document science. URL: <https://textbook.com.ua/dokumentoznavstvo/1473445811> (access date: 09/26/2017).

Description of the standard:

1. DSTU 7152:2010. Edition. Designing publications in magazines and collections. Kyiv, 2010. 16 p.

2. ISO Guide 33:1989. Uses of certified reference materials. 2000-01-01. Geneva, 2000. 30 p.

3. DSTU EN 61010-2-020:2005. Safety requirements for electrical equipment for measurement, control and laboratory use. Part 2-020. Additional requirements for laboratory centrifuges (EN 61010-2-020:1994, IDT). Kyiv: Derzhspozhivstandard of Ukraine, 2007. IV, 18 p.

Description of the patent:

Method of treatment of attention deficit hyperactivity disorder in children: pat. 76509 Ukraine. No. 2004042416; statement 04/01/2004; published 01.08.2006, Bull. No. 8 (book 1). 120 p.

Dissertation description:

Petrov P. P. Activity of young solar mass stars: diss. ... doctor of physics and mathematics Sciences: 01.03.02. Kyiv, 2005. 276 p.

Description of the abstract:

Smirnov I. V. Extraction of actinides and fission products with polyfunctional and macrocyclic compounds: general patterns and application in the processing of HLW: author's abstract. thesis for the degree of Doctor of Chemistry. Sciences: spec. 02.00.14 "Radiochemistry". St. Petersburg, 2009. 26 p.

Description of the directory:

Srednyatka H. V. History of Ukraine. A universal guide for schoolchildren and applicants. Reference notes: a guide. Kyiv, 2017. 272 p. Description of the dictionary Large interpretive dictionary of the modern Ukrainian language / comp. and heads ed. V. T. Busel. Kyiv, 2005. 1728 p.

Description of the collection of articles:

Cultural heritage of Slobozhanshchyna: coll. populist science Art. Kharkiv, 2010. Vol. 23. 228 p. or Cultural heritage of Slobozhanshchyna. Kharkiv, 2010. Vol. 23. 228 p.

Description of the article from the collection:

Ursu D. P. Historiography as an exact science // Kharkiv. historical drama coll. 2010. Issue 10. P. 99–125. or Ursu D. P. Historiography as an exact science. Kharkiv historiographic collection. 2010. Issue 10. P. 99–125.

Description of the article from the online collection:

Ivashchenko V.L. Cognitive terminology: development prospects // Terminological Bulletin 2011. Vol. 1. P. 47–54. URL: [http://nbuv.gov.ua/UJRN/terv\\_2011\\_1\\_7](http://nbuv.gov.ua/UJRN/terv_2011_1_7) (date of application: 09/26/2017).

Description of the multi-volume document (in general):

Encyclopedia of the history of Ukraine: in 10 volumes / editor. : V. A. Smolii and others. Kyiv, 2003–2013. T. 1–10. (team of authors)

Description of a separate volume (if necessary, all authors are listed in the title area):

1. L. S. Tanyuk. Works: in 60 volumes. Volume 18. Kyiv, 2011. 355 p. (one author)
2. Ushinsky K. D. Man as a subject of education. An attempt at pedagogical anthropology: select. writings. T. 1. Kyiv: Rad. Shk., 1983. 480 p. (one author)
3. Bagalei D. I., Miller D. P. History of the city of Kharkiv for 250 years of its existence (1655–1905). in 2 vols. Vol. 1. Kharkiv, 2004. 569 p. (two authors)
4. Heilbron I., Banbery G. Dictionary of organic compounds: in 3 vols. Vol. 3. Moscow: Inostr. liters, 1949. 620 p. (two authors)
5. Kogan V.B., Fridman V.M., Kafarov V.V. Handbook of solubility: in 3 vols. Vol. 1, vol. 2: Binary systems. Leningrad, 1969. 1020 p. (three authors)
6. Bondarenko V. G., Kanivska I. Yu., Paramonova S. M., Harkusha O. M. Probability theory and mathematical statistics. Part 1. Kyiv: NTUU "KPI", 2006. 125 p. (four authors)
7. Chemical encyclopedia: in 5 vols. Vol. 2. Moscow: Sov. Encyclop., 1990. 671 p. (team of authors) Description of part of the document Franko I. Stolen happiness // I. Franko. Writings. Kyiv, 1966. P. 322–419.

Description of the article from the journal (if necessary, all authors are listed in the title area):

Zahirnyak M., Kostenko A. About using the capabilities of the Scopus international database. High school. 2017. No. 5–6. P. 48–55.

Description of the article from the online magazine:

Mar'ina O. Content strategy of libraries in the digital environment // Bibl. release 2016. No. 4. P. 8–12. URL: [http://nbuv.gov.ua/UJRN/bv\\_2016\\_4\\_4](http://nbuv.gov.ua/UJRN/bv_2016_4_4) (access date: 09/26/2017).

Description of conference materials:

1. Ethical and aesthetic tradition in national culture: VII All-Ukrainian student scientific and practical conference with international participation, Kyiv, November 23. 2017. Kyiv. 127 p.

2. Economics, management, education in the system of reforming the agro-industrial complex: materials of the All-Ukraine. conf. of young agricultural scientists "Youth of Ukraine and Agrarian Reform", (Kharkiv, October 11–13, 2000). Kharkiv: Khark. state agrarian University named after VV Dokuchaeva, 2000. 167 p.

Description of the report from the conference materials (if necessary, all authors are listed in the title field):

1. Krasnoperova A.P. Extraction systems for the concentration and extraction of radionuclides based on water solutions of polyethylene glycols // Fundamental and applied problems of modern chemistry: materials of the Second International Conference, April 15–17. 2008, Astrakhan, 2008. P. 342—344.

2. Kovalenko C. N., Silyn A. V., Savchenko T. I. Synthesis and reactivity of pyrazolo[4,3-c]quinolines // Chemistry and biological activity of nitrogen-containing heterocycles: Proceedings of the III International Conference, 20–23 June 2006, Chernogolovka, Russia. Vol. 1. Moscow, 2006. pp. 319-322.

3. Krasnopyorova A. P., Yuhno G. D., Sytnik O. Y., Efimova N.V. The sorption of long-living radionuclides  $^{90}\text{Sr}$  and  $^{137}\text{Cs}$  by natural polysaccharides // Theoretical and experimental studies of interfacial phenomena and technological applications: Proceedings of X Ukraine-Polish Symposium, Sept. 26–30, Lviv. Uzlissia. Part 1. Lviv, 2006. P. 177—181.

Description of the collection of theses reports:

Ethical and aesthetic tradition in national culture: theses of the VII All-Ukrainian student scientific and practical conference with international participation, November 23. 2017. Kyiv, 2017. 127 p.

Description of individual theses from the collection of theses of reports (if necessary, all authors are listed in the title area):

1. Yurchenko O. I.  $\beta$ -Diketonates of metals as possible standard mixture models for atomic-spectrum and physicochemical methods of analysis // Analytical chemistry and chemical analysis: Internat. conf., Sept. 12–18 2005. : abstr. Kiev, 2005. P. 405.

2. O. I. Yurchenko, L. A. Yurchenko, N. P. Tytova  $\beta$ -diketonates of metals as standard samples in chemical analysis // Chemical metrology: problems of ensuring the uniformity of measurements: I science and practice. conference, November 19–23 2001: theses add. Kyiv, 2001. P. 43—46.

3. Savchenko T. I., Silyn A. V., Kovalenko S. N., Chernykh V. P. Synthesis of new 5H-pyrazolo[4,3-c]quinolines // XX Ukrainian Conference on Organic Chemistry

dedicated to the 75th on the occasion of the birthday of Academician O. V. Bogatskyi, September 20–24. 2004: theses add. Odesa, 2004. P. 560.

### **Appendices**

Appendices contain material that complements the text of the work. For example, attachments can be: graphic material, photos, description of equipment and devices, computer programs and results of expert biochemical, morphological or other studies, information about drugs that were used during experiments, calculations, large format tables, etc.

Appendices are drawn up as a continuation of the explanatory note on its following pages. All appendices must be referenced in the text of the paper with their designations and titles.

Each application begins with a new page, on which the top indicates - "Appendix" and its designation, i.e. consecutively in capital letters of the English alphabet. In the case of full use of the letters of the English alphabet, designations with Arabic numerals are assumed. The attachment must have a title.

### **The procedure for preparing and defending a master's work**

The master's diploma work must be submitted to the dean's office one month before the defense.

Before submission to the dean's office, the work must be well edited, error-free, neatly designed, and bound.

The following documents are submitted together with the qualification work:

- feedback from the scientific supervisor;
- internal review noting the positive and negative sides, as well as the possibility of implementation in production;
- an act of checking the work for the presence of academic plagiarism.

In order to defend the results of scientific research, the master's student is given 5-7 minutes for a report at the meeting of the certification commission. At the same time, it is mandatory to use illustrations, it is desirable to refer less to the text of the report, presenting it freely.

After the report, the chairman and members of the attestation commission ask the executor questions related to the topic of research. The head of work is given a floor within 2-3 minutes to announce feedback on the master's student's work.

The discussion and evaluation of the master's work is carried out by the members of the attestation commission after the presentation of all the master's students.

Based on the results of the master's work defense, the master's degree graduate is awarded (or not awarded) the educational degree of master of veterinary medicine.

The master's diploma work is a document of strict control and is permanently stored in the university archive.

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE**  
**State Biotechnological University**  
**Faculty of Veterinary Medicine**  
**Specialty 211 Veterinary Medicine**  
**EPP «Veterinary Medicine»**

**ADMITTED to the defense**

**ADMITTED to the defense**

Head of the department of internal  
diseases and clinical diagnosis of  
animals

Dean                      **O.O. Tsymerman**  
 (signature) full name  
24 of May 2023

                     **Matsenko O.V.**  
 signature full name  
24 of May 2023

**ВТОРИННА ГПЕРЛІПІДЕМІЯ У СОБАК**  
**(ЕТІОЛОГІЯ, МОНІТОРИНГ, ЛІКУВАЛЬНІ ЗАХОДИ)**

Secondary hyperlipidemia in dogs (etiology, monitoring, treatment measures)

**QUALIFICATION WORK**  
of student DHE «Master»  
**full-time education**  
academic group BM21-01МАГ

|                  |                    |  |
|------------------|--------------------|--|
| <b>Performer</b> | _____<br>signature | <b><u>Fomina O.S.</u></b><br>full name   |
| <b>Head</b>      | _____<br>signature | <b><u>as.professor Vikulina</u></b><br><b><u>G.V.</u></b><br>position, full name |

**Kharkiv, 2023**

The structure of the qualification work

Pages

|   |  |
|---|--|
| LIST OF CONVENTIONAL ABBREVIATIONS AND DESIGNATIONS                       |  |
| TASK  |  |
| ABSTRACT  |  |
| INTRODUCTION  |  |
| 1. LITERATURE REVIEW  |  |
| 1.1. Conclusion from the literature review                                |  |
| 2. OWN RESEARCH   |  |
| 2.1. Research materials and methods                                       |  |
| 2.2. Characteristics of the place of research                             |  |
| 2.3. The results of own research  |  |
| 2.4. Discussion of the results of own research                            |  |
| 2.5. Calculation of economic efficiency (or costs of veterinary measures) |  |
| CONCLUSIONS   |  |
| PROPOSALS   |  |
| REFERENCES  |  |
| APPLICATIONS  |  |

(the numbering of subsections in the literature review and the results of own research may be changed depending on the subject and features of the final thesis)

**РЕЦЕНЗІЯ / REVIEW**

кваліфікаційної роботи магістранта / qualification work of a master's student

|   |  |
|---|--|
| Факультет / Faculty   | _____  |
| Прізвище, ім'я, по-батькові / Full Name   | _____  |
| Тема роботи / Topic of work   | _____<br>_____<br>_____  |
| Кафедра / Department  | _____<br>_____   |
| Керівник / Supervisor   | _____<br>_____   |
| Обсяг роботи / Scope of work  | _____ стор. / pages.   |
| Робота містить / The work contains  | _____ таблиць / tables, _____ рисуноків / pictures, _____ фотоілюстрацій / photo.  |
| Список літератури містить / The list of references includes   | _____ джерел літератури / literary source  |
| Тема роботи є / The topic of work is  | _____<br>(актуальною / неактуальною, чітко визначеною / нечітко визначеною / relevant / irrelevant, clearly defined / vaguely defined)   |
| Зміст роботи тему розкриває / The content of the work reveals the topic   | _____<br>(повністю, неповністю, не відповідає темі / completely, incompletely, does not correspond to the topic)   |
| Текст роботи написаний / The text of the work is written  | _____<br>(грамотно, є окремі помилки – стилістичні, граматичні, автор допускає багато помилок / competently, there are some mistakes - stylistic, grammatical, the author makes many mistakes) |
| Робота оформлена / The work is completed  | _____<br>(акуратно / не досить акуратно / неаккуратно / neat / not neat enough / sloppy)   |
| Висновки і пропозиції / Conclusions and proposals   | _____<br>(витікають / не витікають зі змісту, логічні / нелогічні, конкретні / неконкретні / flow / do not flow from the content, logical / illogical, specific / non-specific)                |
| Найбільш цінним у роботі є / The most valuable thing in work is   | _____<br>_____<br>_____<br>(вказати ключові аспекти розробок / indicate the key aspects of developments)   |
| Суттєві недоліки / Significant shortcomings   | _____<br>_____<br>(перерахувати / to count)  |
| Висновок / Conclusion   | _____<br>_____<br>(відповідає / не відповідає вимогам, допускається чи не допускається до захисту / meets / does not meet the requirements, is admitted or not admitted to protection)         |
| Рецензент / Reviewer<br>вчена ступінь, вчене звання, прізвище, ініціали / academic degree, academic rank, surname, initials | _____<br>_____<br>_____  |
| Підпис / signature  | _____  |
| Date  | « _____ » _____ 20____ р. / y.   |





**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE**  
**State Biotechnological University**  
**Faculty of veterinary medicine**  
**Specialty 211 Veterinary medicine**  
**EPP «Veterinary medicine»**

**APPROVE**

The head of department \_\_\_\_\_

\_\_\_\_\_

signature (position, full name)

\_\_\_\_\_/\_\_\_\_\_/2023

**TASK**

for the performance of the MASTER'S QUALIFICATION WORK  
of student

\_\_\_\_\_  
(full name)

1. The topic of the \_\_\_\_\_  
work \_\_\_\_\_

Approved by order of the rector № \_\_\_\_ from \_\_\_\_/\_\_\_\_\_/2023

2. The deadline for the student to submit the completed qualification work to the department until \_\_\_\_/\_\_\_\_\_/20\_\_.

3. Initial data for work: \_\_\_\_\_

\_\_\_\_\_

4. A list of issues being developed in the work: literature review, characteristics of the research base; diagnostic measures for hepatobiliary pathology; conditions for conducting experimental research, conclusions and proposals.

5. List of illustrative material (tables, diagrams, graphs, etc.) \_\_\_\_\_

6. Work schedule

| Implementation stage                      | The date of completion | Performance note |
|---|------------------------|------------------|
| Literature review                         |                        |                  |
| Work performance methodology              |                        |                  |
| Research part                             |                        |                  |
| Economic justification of research        |                        |                  |
| Literary and technical design of the work |                        |                  |

Head of qualification work \_\_\_\_\_

\_\_\_\_\_  
(signature)

\_\_\_\_\_  
(position)

\_\_\_\_\_  
(full name)

7. Accepted the task to be performed \_\_\_\_\_

\_\_\_\_\_  
(signature)

\_\_\_\_\_  
(full name)

Date of receiving \_\_\_\_/\_\_\_\_\_/20\_\_

**ABSTRACT**

(up to 3 pages in accordance with the Regulations)

Qualification work \_\_\_\_\_ full name \_\_\_\_\_ on the topic

\_\_\_\_\_ for obtaining the degree of higher education master's degree in specialty 211 Veterinary medicine, educational and professional program "Veterinary medicine". – State Biotechnological University, MES of Ukraine, 20\_\_\_\_.

*The total amount of qualification work \_\_\_\_\_ pages, of them \_\_\_\_\_ pages of main text. It consists of an introduction, three sections, conclusions; contains \_\_\_\_\_ pictures, \_\_\_\_\_ tables, \_\_\_\_\_ appendices, \_\_\_\_\_ links to sources of information.*

*Key words:*

*Relevance of the topic of the qualification work.*

*The purpose of the qualification work.*

*Task:*

*Object of study.*

*Subject of study.*

*Theoretical and practical significance of the obtained results.*

*Approbation.*

*Publications by topic (if available).*