

2023-2024 Technical Report
Veterinary Educational Assessment
August/September 2023, January 2024, and May 2024 Test Administrations
International Council for Veterinary Assessment

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I. INTRODUCTION

The International Council for Veterinary Assessment (ICVA) Veterinary Educational Assessment (VEA) has been developed for schools accredited by the Council on Education of the American Veterinary Medical Association for use as an assessment of basic science knowledge. In addressing this objective, the VEA strengthens the veterinary education process by providing a psychometrically-sound method for assessing student performance (using the total test score) on both the individual and aggregate level, both on an annual basis and as a longitudinal measure. Schools are able to utilize the score information obtained on the examination for curricular review and assessment purposes.

II. TEST DEVELOPMENT

Veterinary Educational Assessment test development is developed and administered by the ICVA in cooperation with the National Board of Medical Examiners (NBME). The forms used for the 2023-2024 VEA administrations each contained 200 items and 40 pretest items randomly selected for each examination administration. The blueprint used to construct the 2023-2024 VEA forms is as follows:

Area	Percentage	Description
Anatomy	22%	Includes gross and microscopic anatomy, developmental anatomy, physical examination, and principles of radiology and diagnostic imaging
Physiology	23%	Includes organ physiology, physiological chemistry, genetics, nutrition, and breeding
Pharmacology	14%	Includes pharmacokinetics, pharmacodynamics, therapeutics, toxicology, and anesthesia/analgesia
Microbiology	20%	Includes bacteriology, mycology, virology, parasitology, immunology, diagnostics, and public health [regulatory, epidemiology, and zoonoses]
Pathology	21%	Includes general pathology, gross pathology, histopathology, pathogenesis, and clinical pathology [cytology and data analysis/diagnostics]

The committee of content experts listed in Appendix A oversaw the review process for the examination. Following final approval by ICVA, items and images were transmitted to NBME's web-based vendor for publication. Quality control procedures were implemented at each stage of the test development process to ensure accuracy and quality of the test materials.

III. TEST ADMINISTRATION

The VEA was administered to 19 schools during the three testing windows for the 2023-2024 examination cycle. A total of 2515 students completed the examination. Schools that participated in the examination are as follows:

August/September 2023 - Auburn University, Kansas State University, Midwestern University, North Carolina State University, Ross University, St. Matthew's University, Texas A&M University, Texas Tech University, University of Georgia, University of Missouri, and University of Tennessee.



January 2024 - Iowa State University, Lincoln Memorial University, Long Island University, Oklahoma State University, Ross University, St. Matthew’s University, University of Minnesota, University of Pennsylvania, and University of Tennessee.

May 2024 - Louisiana State University, Ross University, St. Matthew’s University, University of Florida, and University of Pennsylvania.

During all three testing windows, the test administration provided the option of remote proctoring.

Post-Test Survey: Examinees were asked to complete an optional post-test survey after completing the examination. Results of the survey for each administration were provided to the ICVA for review.

IV. SCORING AND ANALYSIS

Raw and percent correct scores were computed for each examinee on the total test and each of the five content areas. Percent correct scores for examinees who took the examination in prior years are not directly comparable across forms or administrations. Summary statistics for all students who took the VEA during the 2023-2024 testing cycle are provided in Table 1. Additionally, equated scores were computed for the total test scores and summary statistics are provided in Table 2.

Feedback was distributed to schools approximately 28 days after the end of the administration. Annual school reports were created and distributed to all schools that used the VEA during the 2023-2024 testing cycle in early August of 2024.

**TABLE 1. PERCENT CORRECT - MEANS AND STANDARD DEVIATION FOR ALL EXAMINEES
2023-2024 VETERINARY EDUCATIONAL ASSESSMENT TESTING CYCLE**

Total Test	Anatomy	Physiology	Pharmacology	Microbiology	Pathology
58 (10)	58 (12)	60 (12)	56 (14)	58 (13)	57 (14)

**TABLE 2. TOTAL TEST SCALE SCORE - MEANS AND STANDARD DEVIATION FOR ALL EXAMINEES
2021-2024 VETERINARY EDUCATIONAL ASSESSMENT TESTING CYCLES**

Examinee Group	N	Total Test Scale Mean(SD)
2021-2022	1745	142(10)
2022-2023	1725	145(9)
2023-2024	2514	145(10)

APPENDIX A

Veterinary Educational Assessment Examination Committee Members

Dr. Lora Ballweber - Microbiology
Colorado State University College of Veterinary Medicine, Fort
Collins, CO

Dr. Linda Berent - Pathology
Formerly - University of Missouri College of Veterinary Medicine,
Columbia, MO

Dr. Daniel Brown - Microbiology
University of Florida College of Veterinary Medicine, Gainesville,
FL

Dr. David Cross - Anatomy/Microbiology
University of Missouri College of Veterinary Medicine, Columbia,
MO

Dr. Abdalla Eljack - Anatomy
Tuskegee University College of Veterinary Medicine, Tuskegee, AL

Dr. Hilari French - Physiology/Pathology
Ross University School of Veterinary Medicine, St. Kitts

Dr. Jennifer Ketzis - Microbiology (parasitology)
Ross University School of Veterinary Medicine, St. Kitts

Dr. Martha Littlefield - Physiology
Louisiana State University School of Veterinary Medicine, Baton
Rouge, LA

Dr. Sheba MohanKumar - Anatomy/Physiology/Pharmacology
Michigan State University School of Veterinary Medicine, East
Lansing, MI

Dr. Puliyyur MohanKumar - Anatomy
University of Georgia College of Veterinary Medicine, Athens, GA

Dr. Jeffrey Musser - Microbiology
Texas A&M University College of Veterinary Medicine, College
Station, TX

Dr. Carly Patterson - Pharmacology
Texas A&M University College of Veterinary Medicine, College
Station, TX

Dr. Wayne Schwark - Pharmacology
Cornell University College of Veterinary Medicine, Ithaca, NY

Dr. Cathryn Sparks - Anatomy/Physiology
Kansas State University College of Veterinary Medicine,
Manhattan, KS

Dr. Michael Stonerook - Pharmacology/Toxicology/Physiology
Lincoln Memorial University College of Veterinary Medicine,
Harrogate, TN

Dr. Maureen Wichtel - Anatomy/Physiology
University of Prince Edward Island Atlantic Veterinary College,
Charlottetown, PEI

