The following list of study references is NOT a definitive, exhaustive list for preparing for the ACVPM examinations in the five subject areas:

1. Environmental Health and Toxicology
2. Epidemiology and Biostatistics
3. Food Protection
4. Infectious and Parasitic Diseases
5. Public Health Administration and Education

Subcategories and Exam topics within each subject area are more comprehensively listed within the ACVPM Model Curriculum. The Model Curriculum is an excellent resource to identify topic areas for focused study. A systematic reading of every listed resource is not an expectation of the Exam Committee, particularly since some of the resources have considerable overlap in content. Rather, each candidate should select references within each subject area to build upon and strengthen their own existing set of skills and knowledge. Supplementary titles are provided for those who wish to do additional reading. The current scientific and professional literature (ProMed, JAVMA, MMWR, Lancet, NEJM, Science, etc.) is also necessary to properly prepare for the examinations.

Primary references applicable to more than one subject area:


1. ENVIRONMENTAL HEALTH AND TOXICOLOGY

The Environmental Health and Toxicology section includes nine subcategories: Air; Land/soil; Water; Waste; Emergency Preparedness and Response; Occupational Health; Vectors; Radiation; and Toxicology. An equal number of questions will be drawn from each subcategory in the multiple choice section of the exam. The Toxicology subcategory draws upon the principles of toxicology and toxic substances in general. Applied knowledge of toxicology is incorporated into many of the subcategories areas.

Primary References
Peter Rabinowitz and Lisa Conti, editors, Human-Animal Medicine: Clinical Approaches to Zoonoses, Toxicants, and Other Shared Health Risks, 2010, Saunders/Elsevier (There are several non-infectious disease chapters that are applicable.)

Osweiler, G.D.: Toxicology, 1996, Williams and Wilkins, Media, PA


Websites in topic areas: U. S. Environmental Protection Agency, Centers for Disease Control and Prevention’s National Center for Environmental Health, Agency for Toxic Substances and Disease Registry, National Institute for Occupational Safety and Health, Occupational Safety and Health Administration, U.S. Department of Agriculture, American Board of Veterinary Toxicology, etc.

Supplementary References


Koren, H; Bisesi, M: Handbook of Environmental Health (2 volumes), current edition, CRC Press/Lewis publishers, Boca Raton, FL


Medical Management of Radiological Casualties, current edition, Military Medical Operations, Armed Forces Radiobiology Research Institute

http://www.usuhs.edu/afrri/outreach/pdf/4edmmrchandbook.pdf

2. EPIDEMIOLOGY AND BIOSTATISTICS

The Epidemiology and Biostatistics section of the multiple choice exam includes questions that are drawn from subcategories listed within the Model Curriculum.

Epidemiology is the basic science with tools to support decision making processes in veterinary public health and preventive medicine. It deals with the investigation of diseases, production losses, and health issues in animal and human populations. Essential activities within epidemiology encompass the broad areas of study design, data collection, analysis, and interpretation. Biostatistical methods and techniques are relied upon to objectively identify factors associated with specific outcomes.

Preventive medicine professionals and other practitioners must be able to integrate and synthesize epidemiological findings with their knowledge from other basic and clinical sciences to design effective disease control and health maintenance programs. This includes the ability to plan surveillance or research activities and to evaluate the results.

Additionally, the ACVPM Exam will require biostatistical knowledge that is essential for a diplomate to operate within the preventive veterinary medicine fields. Candidates will need to demonstrate the ability to use and interpret basic biostatistics used epidemiologic studies and investigations. More specific examples of hypothesis tests and statistical techniques are listed.
within the Model Curriculum. General biostatistics books will provide the underlying knowledge but may need to be supplemented with an analytic epidemiology text.

Primary References

☐ Smith RD. Veterinary Clinical Epidemiology current edition. CRC Press, Boca Raton, FL.

Supplementary References

☐ Thrusfield M. Veterinary Epidemiology, current edition. Blackwell Science: Ames, IA.
☐ Gregg MB. Field Epidemiology, current edition. Oxford University Press, Inc. NY, NY

3. FOOD PROTECTION

Food science in the ‘Farm to Fork” spectrum is essential for a diplomate to operate within the preventive veterinary medicine fields. See the ACVPM Model Curriculum for Food Protection subcategories.

Primary References

Websites provide key reference materials and current topics:

☐ US Department of Agriculture (USDA), including:
  ☐ Food Safety and Inspection Service (FSIS), http://www.fsis.usda.gov/wps/portal/fsis/home
☐ US Food and Drug Administration (FDA), http://www.fda.gov/, including:
  ☐ Food Protection topics
  ☐ Pasteurized Milk Ordinance
  ☐ Food Code
  ☐ Bad Bug Book
☐ Centers for Disease Control and Prevention (CDC), https://www.cdc.gov, including:
  ☐ Food protection topics
  ☐ MMWR
4. INFECTIOUS AND PARASITIC DISEASES

The Infectious Diseases section includes eight subcategories: Immunology and Pathogenesis; Transmission; Pharmaceuticals; Biologics; Diagnostics and Chemicals; Bacterial, Viral, Rickettsial, Parasitic, TSE, and Mycotic Agents; Foreign Animal Diseases; and, General.

Primary References

- Foreign Animal Diseases – Current Edition – United States Animal Health Association: Disease Information (usaha.org)
- Diseases and current issues in swine: https://www.Pork.org
- Handbook of Zoonoses: Identification and Prevention, Colville and Berryhill or Zoonoses and communicable diseases common to man and animals, Volumes I & II, Pan American Health Organization
- Emerging Infectious Diseases (on-line Journal), U.S. Department of Health and Human Services, the Public Health Service, the Centers for Disease Control and Prevention: Emerging Infectious Diseases journal - CDC
- Reference for animal health regulatory functions (animal disease programs, regulatory animal health, biotechnology regulations, emergency response) https://www.aphis.usda.gov
- Reference website for bovine brucellosis: USDA APHIS | National Brucellosis Eradication Program
- Bovine tuberculosis regulatory information: USDA APHIS | National Tuberculosis Eradication Program
- International disease standards (OIE): http://www.oie.int/international-standard-setting/terrestrial-code/
Manual of diagnostic tests and vaccines for terrestrial animals: http://www.oie.int

NASPHV compendia and recommendations: http://www.nasphv.org/documentsCompendia.html


ISU Veterinary Diagnostic and production animal medicine- disease topics: https://vetmed.iastate.edu/vdpam/research/disease-topics

AVMA Knowledge base: https://www.avma.org

AVMA Hot issues: https://www.avma.org/News/Issues/Pages/default.aspx

Veterinary accreditation training modules on foreign animal diseases, role of agencies, aquatic animal diseases, antibiotic use, etc.: https://www.aphis.usda.gov/aphis/ourfocus/animalhealth/nvap

CDC Animal parasites: https://www.cdc.gov/parasites/animals.html

CDC zoonotic disease library: https://www.cdc.gov/healthypets/diseases/index.html

Supplementary References (Basic Immunology and Infectious Agent Textbooks – Current Edition)

- Veterinary Immunology – Current Edition, Ian Tizard
- Fenner’s Veterinary Virology, N. James Maclachlan and Edward Dubovi editors.
- Parasitic Diseases. Michael Katz, Dickson D. Despommier, and Robert Gwadz
- Pathogenesis of Bacterial Infections in Animals, Carlton L. Gyles, J.F. Prescott, Glenn Songer, and Charles O. Thoen; or Essentials of Veterinary Bacteriology and Mycology, Current Edition, G Carter and D Wise

5. PUBLIC HEALTH ADMINISTRATION AND EDUCATION

The Public Health Administration and Education section includes questions drawn from the subcategories listed in the Model Curriculum.

Primary References

- Principles and Practice of Public Health Surveillance, current edition by Lisa M. Lee (Editor), Steven M. Teutsch (Editor), Stephen B. Thacker (Editor), Oxford University Press, USA.
- AVMA Policy Statements and Guidelines: https://www.avma.org/resources-tools/avma-policies; information on government agencies and their specific branches/offices that utilize veterinarians; and, references to other resources, including specialty groups.
- NASPHV compendia: http://www.nasphv.org/documentsCompendia.html
- Public Health Law Program: http://www.cdc.gov/phlp/
- Council of State and Territorial Epidemiologists: https://www.cste.org/
- Department of Homeland Security: https://www.dhs.gov/
National Association of County and City Health Officials: http://www.naccho.org/
American Public Health Association: https://www.apha.org/
Public Health Accreditation Board website: http://www.phaboard.org/

Supplementary References