In 2007 there was an increase in the number of terrestrial mammals with rabies in the state of Colorado. Rabies is often a fatal disease and our students are at a higher risk for coming into contact with rabies-infected animals than the general public. This policy reflects a top priority in the college, to provide our students an excellent and safe education.

- Entering first year DVM students are **required to complete the rabies vaccination series within 45 days after the start of the semester**.

- The three shot series is given on days 0, 7 and 21 or 28. The two products available are RabAvert®, chick embryo origin or Imovax®, human diploid origin. The Colorado State University (CSU) Health Network carries RabAvert.

- Vaccination at any time in the past serves as justification for exemption since post-exposure prophylaxis is the same regardless of time since the last vaccination.

- The approximate cost of each vaccination is $275, resulting in an overall price of $825. Rabies vaccination may be arranged through the CSU Health Network; one clinic for DVM students will be offered during the summer and another will be offered at the start of each fall semester. Students with CSU insurance are encouraged to receive the vaccination series through CSU and when insurance is active, so that costs may be reduced. Students may charge the cost of vaccination to their CSU student account.

- The cost of vaccination will be included in financial aid packages, due to the vaccination being required rather than recommended.

- DVM students wishing to be exempted from vaccination must provide a written request containing a statement of justification, along with supporting documentation, to the Associate Dean for Veterinary Academic and Student Affairs (AD). Exemptions may be allowed for religious or medical purposes only. Religious exemptions may be appropriate if the student is an adherent to a religious belief whose teachings are opposed to immunizations. Medical exemptions may be appropriate if the student provides documentation establishing that the vaccination would endanger his or her life or health or is medically contraindicated due to other medical conditions. The AD will evaluate the request in consultation with the Directors of Infection Control, the Diagnostic Laboratory and the Veterinary Teaching Hospital. Although there may be legitimate religious or medical reasons to be exempted, cost of vaccination will not be considered a compelling reason.

- Failure to complete the vaccination series or secure approval for exemption within 45 days of entering the program will prevent the student from continuing in the program.

- Please use the form at the end of this document to provide verification of vaccination, or to submit an exemption request.

The following information regarding rabies in the U.S. was obtained from the Center for Disease Control and Prevention website: [http://www.cdc.gov/rabies/index.html](http://www.cdc.gov/rabies/index.html)

Rabies is a preventable viral disease of mammals most often transmitted through the bite of a
rabid animal. The vast majority of rabies cases reported to the Centers for Disease Control and Prevention (CDC) each year occur in wild animals like raccoons, skunks, bats, and foxes.

The rabies virus infects the central nervous system, ultimately causing disease in the brain and death. The early symptoms of rabies in people are similar to that of many other illnesses, including fever, headache, and general weakness or discomfort. As the disease progresses, more specific symptoms appear and may include insomnia, anxiety, confusion, slight or partial paralysis, excitation, hallucinations, agitation, hypersalivation (increase in saliva), difficulty swallowing, and hydrophobia (fear of water). Death usually occurs within days of the onset of these symptoms.

**Public Health Importance of Rabies**

Over the last 100 years, rabies in the United States has changed dramatically. More than 90% of all animal cases reported annually to CDC now occur in wildlife; before 1960 the majority were in domestic animals. The principal rabies hosts today are wild carnivores and bats. The number of rabies-related human deaths in the United States has declined from more than 100 annually at the turn of the century to one or two per year in the 1990's. Modern day prophylaxis has proven nearly 100% successful. In the United States, human fatalities associated with rabies occur in people who fail to seek medical assistance, usually because they were unaware of their exposure.

**Cost of Rabies Prevention**

Although human rabies deaths are rare, the estimated public health costs associated with disease detection, prevention, and control have risen, exceeding $300 million annually. These costs include the vaccination of companion animals, animal control programs, maintenance of rabies laboratories, and medical costs, such as those incurred for rabies postexposure prophylaxis (PEP).

Accurate estimates of these expenditures are not available. Although the number of PEPs given in the United States each year is unknown, it is estimated to be about 40,000. When rabies becomes epizootic or enzootic in a region, the number of PEPs in that area increases. Although the cost varies, a course of rabies immune globulin and five doses of vaccine given over a 4-week period typically exceeds $1,000. The cost per human life saved from rabies ranges from approximately $10,000 to $100 million, depending on the nature of the exposure and the probability of rabies in a region.

**United States Rabies Surveillance Data, 2006**

Each year, scientists from the Centers for Disease Control and Prevention (CDC) collect information about cases of animal and human rabies from the state health departments and publish the information in a summary report. The most recent report, entitled "Rabies surveillance in the United States during 2010," contains the epidemiologic information on rabies during 2010. [On the website] is a brief summary of the surveillance information for 2010, including maps showing the distribution of rabies in the United States.

In 2010, 48 states and Puerto Rico reported 6,153 cases of rabies in animals and 2 human cases to CDC (Hawaii is the only state that is rabies free). The total number of reported cases increased by approximately 8.0% from those reported in 2009 (6,690 rabid animals and 4 human cases).

**Wild Animals**
Wild animals accounted for 92% of reported cases of rabies in 2010. Raccoons continued to be the most frequently reported rabid wildlife species (36.5% of all animal cases during 2010), followed by skunks (23.5%), bats (23.2%), foxes (7.0%), and other wild animals, including rodents and lagomorphs (1.8%). Reported cases increased among all wild animals during 2010.

Outbreaks of rabies infections in terrestrial mammals like raccoons, skunks, foxes, and coyotes are found in broad geographic regions across the United States. Geographic boundaries of currently recognized reservoirs for rabies in terrestrial mammals are shown [on the website].

**Domestic Animals**

Domestic species accounted for 8% of all rabid animals reported in the United States in 2010. The number of reported rabid domestic animals decreased among all domestic species except cats. In 2010, cases of rabies in cats increased 1.0% compared with the number reported in 2009. The number of rabies cases reported in cats is routinely 3-4 times that of rabies reported in cattle or dogs. Pennsylvania reported the largest number of rabid domestic animals (72) for any state, followed by New York (51). In 2010 approximately 1.1% of cats and 0.3% of dogs tested for rabies were found positive.

**Human Rabies**

In this century, the number of human deaths in the United States attributed to rabies has declined from 100 or more each year to an average of 2 or 3 each year. Two programs have been responsible for this decline. First, animal control and vaccination programs begun in the 1940's and oral rabies vaccination programs in the 2000's have eliminated domestic dogs as reservoirs of rabies in the United States. Second, effective human rabies vaccines and immunoglobulins have been developed.
The College of Veterinary Medicine and Biomedical Sciences requires all entering students in the DVM Program have prophylactic rabies vaccination within 45 days of the start of the program. Exemptions to vaccination may be requested for medical and religious reasons.

SECTION A: CONTACT INFORMATION
Name: __________________________ DVM Class: ____________

CSUID: __________________________ Phone: __________________

Email Address: ____________________

SECTION B: RABIES VACCINATION
Please fill out vaccination information or attach proof of vaccination documentation (receipts, showing product, dates administered and name and address of administering office). Your verification of vaccination will not be considered valid WITHOUT documentation. Please ensure that the record is signed and dated by a nurse or physician. Documentation for each vaccination may be conveyed individually or when the series is completed.

| Name of Clinic/Hospital/Physician administering vaccination: |
| Address: |
| Phone: |

<table>
<thead>
<tr>
<th>Dates of vaccination:</th>
<th>Product/Dosage:</th>
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</thead>
<tbody>
<tr>
<td>First Dose:</td>
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<td>Second Dose:</td>
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<tr>
<td>Third Dose:</td>
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Please send this form AND your Proof of Vaccination document to the CSU Health Network.
Colorado State University Health Network
ATTN: Immunizations
Colorado State University
Fort Collins, Colorado 80523-8031
Phone: 970-491-6548   FAX: 970-491-0268

SECTION C: WAIVER
You may request an exemption from the vaccination for medical or religious reasons. To optimize student protection and enactment of appropriate precautions, section heads and selected course coordinators will be informed of unvaccinated students annually. If an exemption is granted, you agree as a condition of receiving and accepting the exemption, that section heads and selected course coordinators or clinicians may be informed that the student is unvaccinated.
To request an exemption, please fill out SECTION A of this form and attach a written statement of justification, along with supporting documentation. Please email the form to cvmbs_college_office@Mail.Colostate.edu or fax to the DVM Program Student Records Office:

College of Veterinary Medicine and Biomedical Sciences DVM Program
Colorado State University
Fort Collins, Colorado 80523-1601
Phone: 970-491-3818   FAX: 970-491-2250