

**Researcher and Veterinary Services Procedures**  
Medicine/Chemicals in Animal Drinking Water

Standard Operating Procedures	
<b>1. Process</b>	Preparing and handling animal drinking water containing medicine or chemicals: This includes hazardous chemicals, medicine including antibiotics, and chemicals in animal drinking water.
<b>2. Chemical and Hazards</b>	Potential health hazards of the specific medicine/chemical as outlined in the safety data sheet or Occupational Health Review Letter. Follow safety precautions to avoid exposure to potential hazards.
<b>3. Personal Protective Equipment/PPE</b>	<ul style="list-style-type: none"> <li>- Nitrile gloves when reconstituting, preparing, manipulating, and weighing the medicine/chemical</li> <li>- Laboratory coat</li> <li>- Chemical safety goggles</li> </ul>
<b>4. Ventilation Controls</b>	Weigh, reconstitute, and prepare drinking water with medicine/chemicals in a manner that does not release dust or vapors into the breathing zone and in a manner that does not result in splash/splatter. Use a chemical fume hood, biological safety cabinet, or sealed vial to secure contents as appropriate.
<b>5. Special Handling &amp; Storage</b>	<ul style="list-style-type: none"> <li>- <b>Turn in a "Special Service Request Form" to DCM Facility Supervisory Staff</b> prior to administering the medicine/chemical/antibiotics in drinking water.</li> <li>- Label cages with name of medicine/chemical/antibiotics using DCM provided "<b>Medicine/Chemical</b>" cage card.</li> <li>- Label the water bottle with name of medicine/chemical/antibiotics (can use DCM labels).</li> <li>- Provide extra treated water in labeled, non-breakable, sealed bottles in the animal room for husbandry staff to fill in the event that research staff cannot be contacted and animals need additional drinking water. Use a rigid, leak-proof secondary container to transport water bottles to the animal facility.</li> </ul>
<b>6. Waste Disposal</b>	<ul style="list-style-type: none"> <li>- No special medicine/chemical waste procedures are required for the bedding unless waste is considered <i>regulated</i> chemical waste. If so, waste procedures will be outlined in the Appendix A.</li> <li>- <b>Collect any unused medicines/ chemicals/ working solutions as hazardous waste.</b><sup>1</sup></li> <li>- <b>Collect all water treated with antibiotics as chemical waste</b>, contact EH&amp;S for pick up: <a href="http://www.ehs.washington.edu/system/files/resources/1471sample.pdf">http://www.ehs.washington.edu/system/files/resources/1471sample.pdf</a>.</li> <li>- <b>Dispose of antibiotic-treated water in the designated collection site.</b></li> </ul>
<b>7. Spill and Accident Procedures</b>	<ul style="list-style-type: none"> <li>- <b>Animal Water spill:</b> See above #6 for disposal of agent/ working solutions.</li> <li>- <b>Flooded cage:</b> Move animals to dry cage, then turn in Sick animal report. If the treated water is <i>regulated</i> chemical waste, refer to the Appendix A in the animal room for spill cleanup procedures.<sup>1</sup> Note that antibiotic-treated<sup>2</sup> water will not have an Appendix A and does not require special bedding cleanup procedures.</li> <li>- <b>Flooded cage in ABSL-2 Room:</b> Move animals to dry cage, then turn in Sick animal report. To clean the cage, while working in the biological safety cabinet, place paper towels over the wet bedding. Add equal volume Clidox to the bottom of the flooded cage. Leave cage in the biosafety cabinet for at least 20 minutes. Carefully place all the contents of the cage in a rigid, leak-proof, sealed container <i>in the biosafety cabinet</i>. Spray the outside of the container with clidox. Place container in a bag, close bag, remove from biosafety cabinet, and set aside. Notify facility supervisor and request EH&amp;S chemical waste collection<sup>2</sup>.</li> </ul>
<b>8. Exposure Emergency</b>	<p><u>EYE OR MUCOUS MEMBRANE EXPOSURE TO TREATED WATER</u></p> <p><b>1. Flush immediately at nearest eyewash station for 15 minutes. 2. Notify your supervisor. 3. Seek care:</b> During business hours, contact the UW Employee Health Center at 206-685-1026. After hours: Go to the closest Emergency Room. <b>4. Report Incident</b> on UW <a href="http://www.ehs.washington.edu/system/files/resources/lsm.pdf">Online Accident Reporting System (OARS)</a>.</p>

<sup>1</sup> Hazardous chemical concentrations and categories that must be disposed of as hazardous waste is defined in the UW Laboratory Safety Manual in section III-B. <http://www.ehs.washington.edu/system/files/resources/lsm.pdf>

<sup>2</sup> Chemical Collection Request Form: <http://www.ehs.washington.edu/system/files/resources/1471sample.pdf>

**Animal Husbandry Procedures**  
Medicine/Chemicals in Animal Drinking Water

<b>Standard Operating Procedures</b>	
<b>1.Process</b>	<ul style="list-style-type: none"> <li>- Handling animal cages with medicine/chemicals/antibiotics in drinking water.</li> <li>- Changing animal cages if drinking water with medicine/chemicals is spilled or cage is flooded.</li> <li>- Changing animal drinking water bottle that contains medicine/chemical/antibiotics.</li> </ul>
<b>2. Personal Protective Equipment (PPE)</b>	<ul style="list-style-type: none"> <li>- Standard animal facility personal protective equipment</li> <li>- Nitrile gloves</li> <li>- Goggles (when handling treated drinking water bottles, when changing treated water, cleaning treated water spills)</li> </ul>
<b>3. Handling &amp; Storage</b>	<ul style="list-style-type: none"> <li>- Researcher/Veterinary Services will submit a “<i>Special Service Request Form</i>” to DCM Facility Supervisory Staff before adding a medicine/chemical/antibiotic in drinking water.</li> <li>- Researcher/Veterinary Services will clearly label cages with medicine/chemical cage cards when drinking water with medicine/chemicals is present. <b><i>If either SSR or Cage Card are missing – contact your supervisor or PC</i></b></li> <li>- Extra treated water in labeled containers will be available in the animal room for husbandry staff to use in the event that research or vet staff cannot be contacted and animals need additional water.</li> </ul>
<b>4. Spill/Accident</b>	<ul style="list-style-type: none"> <li>- <b>Flooded Cage: Change cage and care for animals.</b> For ABSL-2 animal room, Move animals to dry cage, then turn in Sick animal report. After this, <i>only if there is an Appendix A for the agent:</i> contact research or veterinary staff as applicable (to dispose of flooded cage/materials).</li> <li>- <b>Spilled Water:</b> Wipe up water with paper towels or other absorbent material and clean spill area with Clidox. After this, <i>only if there is an Appendix A for the agent:</i> contact research or veterinary staff as applicable (to dispose of materials).</li> </ul>
<b>5. Waste Disposal</b>	<p>No special disposal procedures with the bedding <i>unless there is an Appendix A</i> for the medicine/chemical posted. EH&amp;S will pick up chemical waste solutions from the PI/lab. If questions, contact research staff or EH&amp;S (206-221-7770).</p>
<b>6. Exposure Emergency</b>	<p><u>EYE, NOSE, MOUTH EXPOSURE TO TREATED WATER</u></p> <ol style="list-style-type: none"> <li>1. <b>Flush immediately at nearest eyewash station for 15 minutes.</b></li> <li>2. <b>Notify your supervisor.</b></li> <li>3. <b>Seek care:</b> Contact the UW Employee Health Center at 206-685-1026. After hours: Go to closest Emergency Room.</li> <li>4. <b>Report Incident</b> on UW Online Accident Reporting System (OARS).</li> </ol>