## Animal Biosafety Level 2

Animal Biosafety Level 2builds upon the practices, procedures, containment equipment, and facility requirements of ABSL-1. ABSL-18 suitable for work involving laboratory animals infected with ageneassociated with human diseased pose moderate hazards to personnel and the environment. It also as hazards from insteon as well as from percutaneous and mucous membrane exposure.

- Vertebrate Animal Biosafety Level Criteria Animal Biosafety Level 2 receive appropriate training reging their duties, animal husbandry procedure, potential hazards, manipionas of infectious agents, necessary precautions to prevent hazard or exposures, and hazard/exposure evaluation procedures (physical hazards, splashesosolization, etc.). Personnel must receive annual updates or additionalrting when procedures or policies change. Records are maintained for all hazard evaluations, employee training sessions and staff attendance.
  - 4. Appropriate medical surveillance pr**agr** is in place, as determined by risk assessment. The need for an animal allergy prevention program should be considered.

Facility supervisors should ensure that dical staff is informed of potential occupational hazards within the animatility, to include those associated with research, animal husbandry ties, animal care and manipulations.

Personal health status may impactradividual's susceptibility to infection,

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7. Protective laboratory coats, gowosµniforms are recommended to prevent contamination of personal clothing.

Gloves are worn to prevent skin contain containated, infectious and hazardous materials and when handling animals.

Vertebrate Animal Biosafety Level Criteria – Animal Biosafety Level 2 substituted for glassware whenever possible.

- e. Equipment containing sharp ges and corners should be avoided.
- 12. Equipment and work surfaces are timely decontaminated with an appropriate disinfectant after work with infectious agent, and after any spills, splashes, or other overt contamination.
- 13. Animals and plants not associated **with** work being performed must not be permitted in the areas where infectionaterials and/or animals are housed or are manipulated.
- 14. An effective integrated pest manageent program is required See Appendix G.
- 15. All wastes from the animal room (duding animal tissues, carcasses, and bedding) are transported from the animodule in leak-proof containers for appropriate disposal in compliance with applicable institutional, local and state requirements.

Decontaminate of all potentially infe**otis** materials before disposal using an effective method.

- **B. Special Practices** 
  - 1. Animal care staff, laboratory anoutine support personnel must be provided a medical surveillance program astelled by the risk assessment, and administered appropriatemunizations for agents and led or potentially present, before entry into animal rooms.

When appropriate, a base line serum sample should be stored

2. Procedures involving a high potiathfor generating aerosols should be conducted within a biosafety cabinet outher physical containment device. When a procedure cannot be perfort monthly a biosafety cabinet, a combination of personal protective expression and other containment devices must be used.

Consideration should be given to the **o**sestraint deviceand practices that reduce the risk of exposure duriagimal manipulations (e.g., physical restraint devices, chemical restraint medications, etc).

3. Decontamination is recommended for all potentially infectious materials and animal waste before movement outside areas where infectious materials and/or animals are housed or are **pala**ited by an appropriate method (e.g. autoclave, chemical disinfection, **other** approved decontamination methods). This includes potentially feactious animal tissues, carcasses, contaminated bedding, unused d, sharps, and other refuse.

Consideration should be given means for decontaminating routine

- Vertebrate Animal Biosafety Level Criteria Animal Biosafety Level 2 present, and should never be propped opeors to cubicles inside an animal room may open outward or stidhorizontally or vertically.
  - 2. A hand washing sink is located **tate** exit of the areas where infectious materials and/or animals are house **direr** manipulated. Additional sinks for hand washing should be located in **otape** propriate locations within the facility.

If the animal facility has segregated as where infectious materials and/or animals are housed or manipulated, not sinust also be available for hand washing at the exit from each segregated area.

Sink traps are filled with water, another another another another another another another and gases.

3. The animal facility is designed, commented, and maintained to facilitate cleaning and housekeeping. The interior faces (walls, floors and ceilings) are water resistant.

Penetrations in floors, walls and kinetig surfaces are sealed, to include openings around ducts, doors and door framesacilitate pest control and proper cleaning.

Floors must be slip resistant, impervidediquids, and resistant to chemicals.

4. Cabinets and bench tops must been private to water and resistant to heat, organic solvents, acids, alkalis, and ent chemicals. Spaces between benches, cabinets, and equipment should be accessible for cleaning.

Furniture should be minimized. Chairs used in animal area must be covered with a non-porous material that **cae** easily cleaned and decontaminated. Furniture must be capable of supporting anticipated loads and uses. Sharp edges and corners should be avoided.

- 5. External windows are not recommendédresent, windows should be sealed and must be resistant to breakate presence of windows may impact facility security and therefore should be assesting discurity personnel.
- 6. Ventilation should be provied in accordance with the *uide for Care and Use of Laboratory Animals*.<sup>1</sup> The direction of airflow into the animal facility is inward; animal rooms should maintainward direction bairflow compared to adjoining hallways. A ducted exhaps tventilation system is provided. Exhaust air is discharged to the outswithout being recirculated to other rooms.

Ventilation system design should consider heat and high moisture load produced during the cleaning of animabms and the cage wash process.

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7. Internal facility appurtenances, suashlight fixtures, air ducts, and utility pipes, are arranged to minimize horizorstalface areas, to facilitate cleaning and minimize the accumulation of debris or fomites.