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 agents sociated with human diseased pose moderate hazards to personnel and the environment. It also assee hazards from insteon as well as from percutaneous and mucous membrane exposure.

Vertebrate Animal Biosafety Level Criteria – Animal Biosafety Level 2 receive appropriate training registred their duties, animal husbandry procedure, potential hazards, manitiolas of infectious agents, necessary precautions to prevent hazard or exposures, and hazard/exposure evaluation procedures (physical hazards, splasaesosolization, 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 pragr is in place, as determined by risk assessment. The need for an animal allergy prevention program should be considered.

Facility supervisors should ensure threedical staff is informed of potential occupational hazards within the aninfreedility, to include those associated with research, animal husbandryties, animal care and manipulations.

Personal health status may impactradividual's susceptibility to infection,

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

Gloves are worn to prevent skin contaminated, 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 shardones and corners should be avoided.
- 12. Equipment and work surfaces aretimely 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 white 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 managent program is required See Appendix G.
- 15. All wastes from the animal roomn@iuding animal tissues, carcasses, and bedding) are transported from the animad in leak-proof containers for appropriate disposal in compliance with applicable institutional, local and state requirements.

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

B. Special Practices

1. Animal care staff, laboratory another support personnel must be provided a medical surveillance program astated by the risk assessment, and administered appropriate munications 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 potticath for generating aerosols should be conducted within a biosafety cabinetouther physical containment device. When a procedure cannot be perforting thin a biosafety cabinet, a combination of personal protective expression and other containment devices must be used.
 - Consideration should be given to the of estraint device and practices that reduce the risk of exposure during imal manipulations (e.g., physical restraint devices, chemical restraint medications, etc).
- 3. Decontamination is recommended for all potentially infectious materials and animal waste before movement outsible areas where infectious materials and/or animals are housed or are repulaited by an appropriate method (e.g. autoclave, chemical disinfection, other approved decontamination methods). This includes potentially feactious animal tissues, carcasses, contaminated bedding, unuseal of, sharps, and other refuse.

Consideration should be givenriteeans for decontaminating routine

Vertebrate Animal Biosafety Level Criteria – Animal Biosafety Level 2 present, and should never be propped opens to cubicles an animal room may open outward or stidhorizontally or vertically.

2. A hand washing sink is located that exit of the areas where infectious materials and/or animals are housed to manipulated. Additional sinks for hand washing should be located in other 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, anod/appropriate liquid to prevent the migration of vermin 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 libreig surfaces are sealed, to include openings around ducts, doors and door frantoefsacilitate pest control and proper cleaning.

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

4. Cabinets and bench tops must be imious to water and resistant to heat, organic solvents, acids, alkalis, and entire themicals. 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 recommended resent, windows should be sealed and must be resistant to break to brea
- 6. Ventilation should be proved in accordance with thouse for Care and Use of Laboratory Animals. The direction of airflow into the animal facility is inward; animal rooms should maintainward direction airflow compared to adjoining hallways. A ducted exhaust ventilation system is provided. Exhaust air is discharged to the outsive thout 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.

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