



Bio Basics Fact Sheet: Working with Human/Other Primate Cells, Tissues, or Human Derived Products

Background

CDC/NIH guidelines outline procedures for working with human and other primate cells and tissues. See *Biosafety in Microbiological and Biomedical Laboratories*, 5th edition, (<http://www.cdc.gov/biosafety/publications/bmbl5/index.htm>), Appendix H. Material Safety Data Sheets for human derived products indicate that no known screening technique can offer complete assurance that such materials are pathogen free. Therefore, universal precautions for handling potentially infectious substances should be employed when using human derived products.

Potential Exposure Hazards

- Bloodborne Pathogens
- Other pathogens that may be present in tissues, cells, and human derived products
- Cells containing viral agents used for transformation
- Self inoculation with tumorigenic human cells
- Unidentified viral material

Standard Practices

- Handle all human and other primate cells, tissues, and human derived products with [Biosafety Level 2 practices in Biosafety in Microbiological and Biomedical Laboratories \(BMBL\) 5th Edition.](#)
- Perform work in a biosafety cabinet.
- Use secondary containment for centrifugation.
- Disinfect liquid waste with bleach (10% final concentration for 30 minutes) or autoclave liquids for 30 minutes before disposal.
- Disinfect solid waste by autoclaving for 60 minutes before disposal (See Autoclaving Waste Fact Sheet, <http://www.dehs.umn.edu/PDFs/autoclaveBioWaste.pdf>) or dispose in red biohazard bag.
- Follow biohazard spill clean-up procedures for human/primate blood/fluids, <http://www.dehs.umn.edu/PDFs/chemicalDecontaminate.pdf>.
- Complete Bloodborne Pathogen Training, http://www.dehs.umn.edu/bio_pracprin_blood_bpt.htm.
- All supervisors must offer lab workers the Hepatitis B vaccination and have employees sign [declination form](#) if they refuse vaccination.
- Have all exposures (needle sticks, contamination of non-intact skin, splashes to eyes, face, and mucous membranes) evaluated by a medical professional; Boynton Health Service during regular business hours and University Hospital Fairview after hours or the individual's health care provider of choice.
- Report all exposure incidents to supervisor and the Biosafety Officer, 626-6002. Fill out an accident report form available at <http://policy.umn.edu/Policies/hr/Benefits/WORKERSCOMP.html>.