

INFECTIOUS WASTE MANAGEMENT PLAN
West Virginia School of Osteopathic Medicine,
Fredric W. Smith Science Building

I. FACILITY –

Physical address:
Fredric W. Smith Science Building
400 N. Lee Street
Lewisburg, Greenbrier County
West Virginia 24901

Mailing address:
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II. OBJECTIVES OF THE WASTE MANAGEMENT PLAN

The objectives of this plan are to:

A. Provide a safe environment for visitors, students, faculty and staff in the Fredric W. Smith Science Building (hereafter referred to as the SSB).

B. Proper management of infectious medical waste in accordance with the West Virginia Infectious Waste Rule 64-CSR-56 and the Occupational Safety and Health Administration Health Regulations on Exposure to Bloodborne Pathogens.

III. HANDLING OF INFECTIOUS MEDICAL WASTE

A. Packaging - All infectious medical waste, except free liquids, sharps and plastic or glass pipettes, shall be placed into two (2) leak-proof orange plastic bags (double-bagged) that meet the American Society for Testing and Materials drop weight test (ASTM-D-959-80) of 125 pounds. The bags shall have the international biohazard symbol on them and also contain the words "Biohazard" or "Biohazardous Materials" on them. Free liquids shall be contained in break resistant, tightly capped containers. These shall have the international biohazard symbol on them and the words "Biohazard" or "Biohazardous Materials" on them. Heavier materials shall be supported in double-walled corrugated fiberboard boxes. These boxes shall have the international biohazard symbol on them and the words "Biohazard" or "Biohazardous Materials" on them.

Contaminated needles and sharps shall be collected at the point of generation in rigid leak-proof and puncture-resistant containers that have the international biohazard symbol on them and the words "Biohazard" or "Biohazardous Materials" on them.

Contaminated Pasteur pipettes shall be placed into double-walled corrugated fiberboard boxes labeled for broken glass and with additional labels with the international biohazard label on them and the words "Biohazard" or "Biohazardous Materials" on them.

Contaminated plastic or glass serological pipettes shall be segregated from other biohazard waste and placed into two (2) leak-proof orange plastic bags (double-bagged) in such a manner as to not puncture the bags. The bags must meet the American Society for Testing and Materials drop weight test (ASTM-D-959-9) of 125 pounds and have the international biohazard symbol and words "Biohazard" or "Biohazardous Materials" on them.

Bags, boxes, liquid containers and sharps containers shall not be filled beyond 75% of their total capacity. All bags, boxes, liquid containers and sharps containers must be labeled with the supplied form label which states the origin of the waste and the signature of the operator processing the waste. Each SSB laboratory will identify and implement procedures for the proper segregation of waste at the source and will be mindful to not over-classify the waste.

B. Handling -

1. Regulated medical waste for removal by a licensed biohazardous materials waste removal company.

Each SSB laboratory, as necessary, shall maintain boxes with liners for infectious medical waste that cannot be treated internally. The boxes shall be kept in that laboratory until such time as they become full and/or weigh <50 pounds. At that point the box shall be sealed and transported to Room 124 by the person designated from that laboratory to await pick-up by the licensed biohazardous waste removal company. Whole animals or gross sections of animals (e.g. whole organs) cannot be autoclaved on site and must be disposed

as infected animal waste via the licensed waste company. Sealed boxes will be appropriately labeled and stored in a locked storage area to be picked up in no more than 30 days.

2. Regulated medical waste treatment on premises.

All unautoclaved infectious medical waste that is in bags, boxes, liquid containers, or sharps containers shall be picked up by the autoclave operator and transported to the autoclave room (229) of the SSB. Bags, boxes and sharps containers shall be placed into a large rigid, lockable, leak-proof and puncture resistant red bin marked with biohazard labels to await autoclaving.

The autoclave room technician will be responsible for the sterilization and disposal of all biohazardous waste materials. During the handling of non-sterile biohazardous materials, the technician will at a minimum wear a lab coat and heavy duty gloves (e.g. Playtex Living Gloves) and observe all BSL1 operating procedures. Goggles shall be used when there is a risk of splashing. Individual lab technicians will wear disposal nitrile (or other synthetic) gloves and lab coats during the handling and transportation of biohazardous materials. Solid materials will be transported to the autoclave room 229 in double-bagged biohazard waste bags placed inside a secondary container. All transport will be within a lockable, mobile red bin with biohazard markings.

C. Labeling – The label on each bag shall contain the following information

- The name, address and business telephone and fax numbers of the facility at which the waste was rendered noninfectious.
- Date treated and the method of treatment.
- Weight of the treated noninfectious medical waste.
- A signed and dated certification stating: "I hereby certify under penalty of law that this waste has been rendered noninfectious in accordance with procedures required by Infectious Medical Waste, 64 CSR 56."

D. Treatment – All unautoclaved infectious medical waste that is in labeled bags, boxes, liquid containers and/or sharps containers shall be steam-sterilized at 121.1° C (250° F) and 15 pounds pressure for 90 minutes. The autoclaves shall be tested every 40 hours (2400 minutes) of operation with *Bacillus geostearothermophilus*. The autoclaves shall be inspected quarterly by a licensed qualified technician from a licensed qualified sterilizer company and all necessary maintenance and upgrades made. Only the autoclave located in SSB Animal Quarters, Room 229 will be used for the sterilization of infectious medical waste.

E. Disposal – All labeled solid infectious medical waste that has been steam sterilized and rendered noninfectious, will be weighed, with the date weighed and the name of the person doing the weighing recorded in the log book. Bags may then be placed directly into the solid waste dumpster for immediate pick-up. All labeled liquid infectious medical waste that has been steam sterilized and rendered noninfectious may then be disposed of into the sanitary sewer.

F. At no time shall the SSB at West Virginia School of Osteopathic Medicine knowingly accept infectious medical waste from another facility. All infectious medical waste generated at this facility shall be properly packaged and labeled before leaving the premises.

G. Storage of Infectious Medical Waste to be removed by Waste Removal Service - The designated storage area shall be Room 124. Access to the facility is restricted, it is vermin-proof and water-proof, and has been identified as a Biohazardous Storage Area with a sign prominently posted on the door. Once a month the filled boxes in the storage area shall be picked up by the licensed biohazardous waste removal company. The boxes shall not be stored any longer than thirty (30) days. The SSB will generate between 50 and 100 pounds of infectious medical waste per month.

H. Waste Removal - the SSB at West Virginia School of Osteopathic Medicine shall contract with a licensed biohazardous materials waste removal company to remove infectious medical waste generated at the SSB, to be disposed of according to local, state and federal regulations. At this time the SSB shall contract with Stericycle, Inc.

The corporation office is: Stericycle, Inc.
28161 N. Keith Drive
Lake Forest, IL 60045
(847) 367-5910

The disposal facility is: Stericycle, Inc.
88 W. Airport Industrial Park Road
Parkersburg, WV 26104
(304) 464-1224

Their permit/license # is: IMW-99-06-CM001

This licensed biohazardous materials waste removal company shall dispose of the infectious medical waste by off-site autoclaving and/or incineration as required.

I. Contingency Plan - In the event that the SSB shall be unable to autoclave their infectious medical waste, our currently contracted licensed biohazardous materials waste company shall be contracted with to provide collection, treatment and disposal of the infectious medical waste generated at the SSB. In the event that the licensed biohazardous materials waste removal company should be unable to provide collection and disposal of the SSB infectious medical waste, we will contract with another licensed biohazardous waste disposal company to provide collection, treatment and disposal of the infectious medical waste generated at the SSB

J. Separation - All medical waste shall be separated at the point of generation, including sharps, infectious materials and glass. Solid infectious medical waste shall be placed into orange biohazard bags. Liquid infectious waste shall be placed into leak-proof, break-resistant tightly capped containers. Contaminated broken glass and sharps shall be placed into a leak-proof and puncture-resistant container. Non-contaminated waste shall be placed into the regular trash. Non-contaminated broken glass shall be placed into boxes labeled as containing uncontaminated broken glass and placed into the regular trash.

K. Volume Reduction - Training shall be provided to educate personnel as to the proper segregation of infectious versus noninfectious waste.

IV. TRANSPORTATION OF INFECTIOUS MEDICAL WASTE

A. Internal Transportation - All infectious medical waste shall be transported through the SSB in closed containers. At no time shall any infectious medical waste be transported without being enclosed in a proper container.

B. External Transportation - External transportation of infectious medical waste from the SSB shall only be done by a licensed biohazardous materials waste removal company to their off-site treatment facility.

V. TRAINING

A. The West Virginia School of Osteopathic Medicine Institutional Biosafety Committee shall be responsible for training employees on the proper handling and treatment of infectious medical waste. All employees involved in research, laboratory work, housekeeping or maintenance shall be required to complete modules on the OSHA Occupational Exposure to Bloodborne Pathogens Standards, and other appropriate modules in the Collaborative Institutional Training Initiative (CITI) Program.

B. All personnel who will be permitted to sign the shipping manifests for Stericycle, Inc. shall receive Haz Mat training, as mandated by the DOT, and every three years after that to maintain their certification.

VI. DISPOSAL PLAN

A. Stericycle, Inc. agrees to provide the SSB with biohazardous materials waste collection and disposal through once a month pickups, or whatever schedule is deemed appropriate, at the SSB, 400 N. Lee Street, West Virginia School of Medicine, Greenbrier County, West Virginia, 24901. Stericycle, Inc. shall supply the SSB with suitable containers containing red liners with Biohazard labels. No more than 65 pounds of waste may be placed in each container.

B. Manifest - All infectious medical waste to be collected by and disposed of off-site by Stericycle, Inc. which shall generate a manifest to track the material. (See Attachment B). In accordance with the West Virginia Infectious Waste Rule 64-CSR-56, all manifest records will be retained for a minimum of three years.

C. Transportation - All infectious medical waste collected and transported off-site by Stericycle, Inc. shall be in an enclosed, licensed and identified vehicle specifically used for this purpose. All transportation shall be in accordance with all State and Interstate Regulatory Agencies.

D. Handling - The infectious medical waste that Stericycle, Inc. shall contract to remove shall be placed into the containers so as not to puncture them. Stericycle, Inc. shall be responsible for replacing the containers with additional containers and liners as necessary.

E. Disposal of Waste - Disposal of the infectious medical waste shall be by off-site autoclaving and/or incineration and land filling by Stericycle, Inc., as required by applicable state and federal laws. Infected animal carcasses will be incinerated by Stericycle.