



INTEGRATED BIOREPOSITORY OF H3AFRICA UGANDA

MAKERERE UNIVERSITY

COLLEGE OF HEALTH SCIENCES

STANDARD OPERATING PROCEDURE

TITLE: WASTE MANAGEMENT

PAGE 1 of 7

SOP #: IBRH₃AU-SOP-BSP-014.4

Effective Date: 01/09/2018

Next Rev: SEPT 2021

Prepared by:

Reviewed by:

Approved by:

(Signature & Date)

NAME: Kamulegeya Rogers
TITLE: Lab Manager

(Signature & Date)

NAME: Mr. Musinguzi Henry
TITLE: Coordinator

(Signature & Date)

NAME: Prof. Moses Joloba
TITLE: Principal Investigator

VALIDATION AND RETIREMENT

	NAME	DATE
Validated by:		
Retired by:		

ACKNOWLEDGEMENT OF READING AND UNDERSTANDING

I have received and understood the training on this SOP. If I have not understood the training I have asked the trainer to retrain me to ensure that I completely understand all the requirements.

	NAME	SIGNATURE	DATE
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1 INTRODUCTION

Processing and storage of biospecimen involves the use of chemicals and generation of biohazardous waste. Measures and precautions shall be taken to ensure that personnel handle these chemicals, biospecimen and waste generated with care to avoid contamination and injury of personnel and contamination of public sites. Disposal of chemicals, biospecimen and biohazardous waste shall be done safely and with adherence to local regulations. The degree of processing may reduce the risk from infective agents and chemicals. However, certain agents may still be infective even when fixed or processed.

2 PURPOSE

To outline processes that will be used to handle both biohazardous and chemical waste in a manner compliant to biosafety regulations and ensuring that the following risks are minimized:

- a) Contamination of public waste sites with biohazardous materials.
- b) Exposure of biobank and waste management personnel to infectious agents.

3 SCOPE

This standard operating procedure outlines processes that must be followed when disposing of biohazardous waste.

4 REFERENCE TO OTHER IBRH₃AU SOPS OR POLICIES

- 4.1 IBRH₃AU Policy: POL 2 Ethics and Regulatory Issues
- 4.2 IBRH₃AU Policy: POL 5 Records and Documentation
- 4.3 IBRH₃AU Policy: POL 8 Occupational Health and Safety.



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5 MATERIALS, EQUIPMENT AND FORMS

- 5.1 Appropriately labeled biohazard waste bags
- 5.2 Biohazardous sharps disposal containers
- 5.3 Bleach or chemical disinfectant
- 5.4 Hazardous Chemicals
- 5.5 Disposal Receptacles
- 5.6 Identifying Labels
- 5.7 Forms
- 5.8 Gloves
- 5.9 Lab coat
- 5.10 Face shield

Note: Before performing any of the procedures listed below make sure you have put on appropriate/necessary personal protective equipment.



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6 PROCEDURE

6.1 Disposal – Biohazardous Liquids (Human blood, and other body fluids)

- 6.1.1 Pour the waste into a leak proof container containing freshly prepared 10 % chlorine bleach solution or other suitable chemical disinfectant. If possible, perform this task in a fume hood.
- 6.1.2 After 30 minutes or a suitable time-interval ensuring decontamination, the solution may be discarded down the drain.
- 6.1.3 Avoid the creation of aerosols or spills during this process.

6.2 Disposal – Sharps Waste

- 6.2.1 Recapping the needles is not recommended
- 6.2.2 Dispose of all sharps waste into an approved puncture resistant container labeled with a biohazard symbol
- 6.2.3 Sharps containers must be incinerated or autoclaved before reuse

6.3 Disposal of Waste for Non-Bankable Biospecimen

- 6.3.1 In the case of inadequate or revoked consent, identify all biospecimen associated with the participant.
- 6.3.2 Before disposal confirm the identity of the biospecimen.
- 6.3.3 Retrieve biospecimen from storage unit.
- 6.3.4 Dispose of tubes in the biohazardous waste bag for incineration
- 6.3.5 Record that the sample has been discarded and update inventory systems respectively.



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7 REFERENCES

- 7.1 Best Practices for Repositories I. Collection, Storage and Retrieval of Human Biological Materials for Research. International Society for Biological and Environmental Repositories (ISBER).

http://www.isber.org/Search/search.asp?zoom_query=best+practices+for+repositories



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8 REVISION HISTORY

Revision No	Effective Date	Description of Changes Made from Preceding Revision	Approved by/ Date

ANNEX 1: DOCUMENTATION OF SUGGESTED CHANGES TO THIS SOP

CLAUSE	SUGGESTION	BY	DATE