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PURPOSE:


To identify the area of waste generation and describe the detailed workflow for decontamination and final disposition of the corresponding waste.

LEVEL:

Laboratory Aide, Medical Technologist, Receptionist, Rotating Pathology Resident, Pathologist, and Servicing Engineers

DEFINITION OF TERMS:


1. ***Infectious waste.*** Waste suspected to contain pathogens (bacteria, viruses, parasites, or fungi) in sufficient concentration or quantity to cause disease in susceptible hosts.
2. ***General Waste.*** Comparable to domestic waste. Waste generate from administrative and housekeeping functions.
3. ***Sharps.*** Include needles, syringes, scalpels, saws broken glass, pipette tips and any other items that can cut or puncture wounds whether they are infected, such items are considered highly hazardous health care waste.
4. ***Chemical Waste.*** Chemical wastes consist of discarded solid, liquid, and gaseous chemicals.
5. ***Biosafety officer.*** An individual designated to oversee facility or organizational biosafety (and possibly biosecurity) program.
6. ***BioRisk Management Team.*** An institutional committee created to act as an independent review group for biosafety issues, reporting to senior management. The membership of the biosafety committee should reflect the different occupational areas of the organization as well as its scientific expertise.
7. ***Decontamination.*** Reduction in the number of viable biological agents or other hazardous materials on a surface or object(s) to an acceptable level by chemical and/or physical means, often in combination with cleaning or physical removal of contaminants.

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8. **Disinfectant.** Agents capable of reducing the number of viable biological agents on surfaces or in liquid waste. These will have varying effectiveness depending on the properties of the chemical, its concentration, shelf life and contact time with the agent.
9. **Biosafety Cabinet (BSC).** Agents capable of reducing the number of viable biological agents on surfaces or in liquid waste. These will have varying effectiveness depending on the properties of the chemical, its concentration, shelf life and contact.

POLICY:

- 1 Waste decontamination is a process wherein waste is treated as needed and disposed. Proper identification, segregation, and disposal of wastes are necessary to prevent dispersal of biological agents.
- 2 All potential waste streams that will be generated from each procedure shall be assessed and an appropriate process shall be placed prior to the procedure from being done.
- 3 Shall ensure that containers are properly labeled, not leaking and are suitable for every type of waste.
- 4 Untrained staff shall not be allowed to handle hazardous waste. Personal Protective Equipment (PPE) shall be used when handling waste based on risk assessment.
- 5 A record book of the type of waste and estimated quantity shall be filled out prior to autoclaving.

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- 6 Users must wear the appropriate PPE depending on the items they are handling and the procedures they are doing.
- 7 All persons entering the facility must wear appropriate personal protective equipment and shall change street shoes to dedicated laboratory shoes/boots.

WASTE, MATERIALS & EQUIPMENTS FOR WASTE HANDLING

Personal Protective Equipment Matrix			
Type of waste generated and corresponding area	AREA	Prescribed PPE	Type of Disinfection
Paper towels/wipes used to disinfect transport box surfaces (infectious waste) Dedicated ballpens & markers Gloves and, Biological Bag PPE	Reception Area	Head cover, Surgical Face Mask, Face Shield, Double Gloves, Scrub Suit, Water Impermeable Gown, Lab Boots, Shoe Cover	All paper towels/wipes, gloves, PPE and biological bag will undergo steam sterilization. Ball pens, markers and key board and work surfaces will be cleaned by 10% hypochlorite wipes and followed by 70% alcohol.



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<p>Biological bags Paper towel/wipes Primary containers Secondary containers Absorbent materials Aliquots (biosecurity documentation) Pipettetips (sharps handling transport box) Gloves Ballpens and markers</p>	<p>Receiving/ Inactivation Area</p>	<p>Head cover, Fit-Tested N95/N100/P100, Goggles/Face Shield, Double Gloves, Scrub Suit, Disposable Cover All, Lab Boots, Shoe Cover</p>	<p>All paper towels/wipes, gloves, PPE, Primary and secondary container, absorbent pads and biological bag will undergo steam sterilization.</p> <p>Pipette tips must be decontaminated by 10% hypochlorite solution, drained and rinsed with water prior steam sterilization. Ballpens and markers will be cleaned by 10% hypochlorite wipes followed by 70% Alcohol.</p> <p>Positive template control is considered potentially infectious. Need to protect reagents from contamination.</p>
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Biobags Paper towels PCR tubes Spin column tubes Pipette tips (sharp handling) Cold block (re-use)	RNA Extraction Area	Head cover, Fit- Tested N95/N100/P100, Goggles/Face Shield, Double Gloves, Scrub Suit, Disposable Cover All, Lab Boots, Shoe Cover	All paper towels/wipes, gloves, PPE, PCR Tubes, Spin Column tubes and biological bag will undergo steam sterilization. Pipette tips must be decontaminated by 10% hypochlorite solution, drained and rinsed with water prior to steam sterilization. Surfaces must be wiped by 10% hypochlorite followed by 70% alcohol. Cold block will be soaked to 10% freshly prepared hypochlorite solution.
Gloves Water impermeable gown Boot covers Surgical mask Paper towel/wipes Reagent empty vials	Mastermix Preparation/Re agent Room	Head cover, Fit- Tested N95/N100/P100, Goggles/Face Shield, Double Gloves, Scrub Suit,	All paper towels/wipes, gloves, PPE, reagent empty vials and biological bag will undergo steam sterilization.



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Reagent boxes and inserts. Pipette tips (sharps handling)		Disposable Lab Gown, Lab Boots, Shoe Cover	Pipette tips must be decontaminated by 10% hypochlorite solution, drained and rinsed with water prior to decontamination. Surfaces must be wiped by 10% hypochlorite followed by 70% alcohol.
Gloves Water impermeable gown Boot covers Surgical mask Paper towel/wipes Pipette tips (sharps handling)	Template Adding Room	Head cover, Fit-Tested N95/N100/P100, Goggles/Face Shield, Double Gloves, Scrub Suit, Disposable Lab Gown, Lab Boots, Shoe Cover	All paper towels/wipes, gloves, PPE and biological bag will undergo steam sterilization to inactivate highly infectious waste. Pipette tips must be decontaminated by 10% hypochlorite solution, drained and rinsed with water prior to steam sterilization. Surfaces must be wiped by 10% hypochlorite followed by 70% alcohol




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Gloves Water impermeable gown Boot covers Surgical mask Paper towel/wipes	PCR	Head cover, Fit-Tested N95/N100/P100, Goggles/Face Shield, Double Gloves, Scrub Suit, Disposable Lab Gown, Lab Boots, Shoe Cover	Gloves, Boot covers, surgical mask, water impermeable gown, paper towels and PCR waste will undergo steam sterilization to inactivate amplicons. Surfaces must be wiped by 70% alcohol
Gloves Laboratory gown Surgical Mask Papers (sort confidential reports for shredding)	Clean Write Shop	Surgical Face Mask, Face Shield, Lab Gown,	Surfaces will be wiped by 10% hypochlorite followed by 70% alcohol (surfaces decontamination) Gloves, Surgical mask will undergo steam sterilization. Laboratory gown will be decontaminated by colored safe bleach or Oxy-bleach detergent prior to laundry.
Gloves Water impermeable gown Boot covers Surgical mask	Doffing Area	Surgical face mask, Gloves, dedicated shoe	All waste PPEs generated per area at doffing will undergo steam sterilization.

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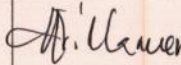
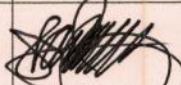
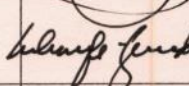

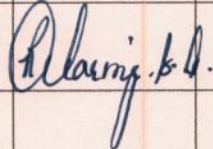
Paper towels/wipes Hazmat/coveralls Dedicated working Boots Face shields /goggles			Laboratory aide will surface decontaminate the doffing are by 10% hypochlorite solution followed by 70% alcohol. Dedicated boots must wiped or decontaminated by 70% alcohol.
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APPROVAL:

	Name/Title	Signature	Date
Prepared by:	NINO E. BENEDICTO, RMT Molecular Biology Laboratory Analyst		07/09/22
Verified by:	MONICA B. VILLANUEVA, RN, RMT, PhD Laboratory Director		7-6-2022
	DAVID G. PEDROZA, MD Associate Pathologist		07/05/22
	MELANIE ROSE B. ZERRUDO, MD, FPSP Chair, Department of Pathology		7-7-2022
Reviewed by:	DENNIS C. ESCALONA, MN, FPCHA, FPSQua Quality Assurance Supervisor		7/7/2022
Recommending Approval by:	ROSARIO D. ABARING, RN, MN, PhD, FPCHA Ancillary Services Division Officer		
	HENRY F. ALAVAREN, MD, FPSMID Total Quality Division Officer		
Approved by:	GENESIS GOLDI D. GOLINGAN President and CEO		