

<p>Center for Human Phenomic Science</p>	<p>University of Pennsylvania Health System</p>	<p>CHPS SOP 15</p>
<p>Standard Operating Procedure</p>	<p>High-Level Disinfection of ParvoMedics Equipment</p>	

PURPOSE

To outline the instructions for cleaning and sanitizing the devices and dilution canopy used in conjunction with the ParvoMedics True One Metabolic Cart. CHPS staff will clean and disinfect the metabolic cart and the accessories before and after each test.

SCOPE

CHPS EMU/CPU

DEFINITIONS

Metabolic Cart: The equipment used to complete exercise testing and indirect calorimetry.

CLEANING AND DISINFECTING FOR THE EXERCISE SYSTEM:

After each use, clean and disinfect the metabolic cart surface using disinfecting wipes containing HUP Standard Approved Wipes for the dry time duration listed on the package. Allow to air dry.

After each use, wear gloves, mask and protective eye wear or shield and perform the following tasks:

1. Discard the Smooth Bore 6-9' breathing tube, blue VBMax filter, mouthpiece, nose clip, and cloth sweatband associated with plastic head cap assembly/mouthpiece.
2. Prior to first use and after each use, disassemble reusable parts and wash with Enzol Enzymatic detergent or Endozime Xtreme Power (a pH neutral enzymatic detergent and warm water). Place in red biohazard container. Reusable parts include 2 way valve, rubber adapter, water trap assembly, plastic adaptor associated with mouthpiece and 2 part white deflectors.
3. Prior to first use and after each use, disassemble blue mask, head gear and mask adapter. (7450 Blue mask, head gear, and mask adapter (PDF 691341-E-2023-07-01_7450_IFU-8x11 All.pdf). Service life of mask, mask adapter and headgear is expected to stay in service for 25 uses. Visually inspect and if defects are identified dispose of part. Soak mask and mask adapter for 5 minutes in warm water with ASP Enzol Enzymatic Detergent or Endozime Xtreme Power.

Hand wash components with sponge or soft brush then rinse with warm tap water. Place in red biohazard container. Submerge headgear in warm, soapy tap water for 1 min or until all soap is removed. Air dry and do not place in red biohazard container. 4. Place all precleaned soiled reusable parts, with exception of mask headgear, in the hard sided red cooler marked with a Biohazard sticker for transport to HUP by Materials Management Transport.

5. For Cardiopulmonary Exercise Testing (CPET), wipe down the plastic head cap assembly associated with the mouthpiece using wipes HUP Approved wipes . Allow to air dry.

6. For Resting Energy Expenditure (REE), place the canopy over a stand and wipe down the canopy and drape using disinfecting wipes HUP Approved wipes. Allow to air dry.

DISINFECTION PROCESS AT PAVILION 3 Clean/ Soiled Workroom:

2-Way Valve (PDF: Hans Rudolph 691200-E-2019-10-07 Two Way Valves IFU),

Rubber Adapter (PDF: ThermoPlastic Rubber), Water Trap Assembly (PDF: 691.207 accessories for 7004_PET Plastic and PDF: Water Trap Assembly),

Plastic adaptor associated with mouthpiece (PDF: 691207 0915 F Mouthpieces, Noseclips, and Respiratory Connectors),

White deflectors and silicone rings (PDF: 691.207 accessories for 7004_PET Plastic),

Blue masks and mask adapter (7450 Blue mask, head gear, and mask adapter (PDF 691341-E-2023-07-01_7450_IFU-8x11 All.pdf).

These items will undergo manual high level disinfection (HLD) with Steris Revital-Ox RESERT solution. The competency tested clinician will adhere to the HUP Respiratory procedure for HLD with Revital Ox. Following the procedure below

1. Assure equipment pre-clean is complete.
2. Don PPE (gown, gloves, mask with face shield)
3. Ensure Revital-Ox is within expiration, open date is recorded on the original bottle.
4. Verify temperature of solution (20 degrees Celsius)
5. Verify Revital-Ox concentration with test strip.
6. Immerse equipment in solution, set timer for 8 minutes.
7. Rinse in sterile H2O for one minute.
8. Able to verbalize drying and packaging process.
9. Able to verbalize correct documentation.

(PDF: SterisRevitalOxERSERTHLDMonograph, Steris HLD Statement to Customers 7-15-2015). Date of cleaning, items cleaned, and name of person completing cleaning will be recorded in the CHPS HLD log book. The clinician performing HLD is required to have an annual competency assessment signed off by the superuser.

TRANSPORT of REPROCESSED EQUIPMENT:

Items that have been high-level disinfected shall be placed in a single use self sealing pouch with a green HLD clean sticker. The sticker should be labeled with the reprocessing date and

signature of reprocessor. The pouch shall be placed in a clean labeled transport container and transported by Materials Management to PPMC. The red biohazard transport container is sent back to PPMC with Materials Management.

Prior to testing:

1. inspect all pieces for evidence of damage. Do not use damaged pieces.
2. Record date of cleaning and initials for each piece used for each test.
3. Use a clean dry bin to immerse all pieces that underwent high level disinfection in sterile water and allow to air dry.
4. Wipe the metabolic cart surface and the canopy and drape (if applicable) using Hup Approved wipes. Allow to air dry.
5. Connect a new Smooth Bore 6-9' breathing tube (PDF: Vbmax-s-series) and associated parts.
6. Insert new blue VBMax filter.

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