



### FOR FACILITY USE ONLY

Staff Name:	 	 	
Training Date:	 	 	
Trainer:	 	 	

**MEDIVATORS** 

# INTENDED USE AND GUIDELINES

## Intended Use

- 1. High-level disinfection of flexible endoscopes
- 2. Operator Safety Overview: appropriate PPE: mask, gown, gloves, eye protection

## **Guidelines for Reliable Disinfection**

- 1. Detergent Solution (optional) used in the wash cycle, must be low-foaming, free-rinsing, neutral in pH and use according to manufacturer's instructions
- 2. Disinfectant Solution required for high-level disinfection cycle
- 3. Olympus®, Pentax®, Fujinon®, Storz® Endoscope cleaning and disinfection guidelines
- 4. SGNA, ASGE, ASTM, APIC and AORN Endoscope cleaning and disinfection guidelines
- 5. SGNA approved reprocessing steps endoscope bedside pre-cleaning, leak testing, manual cleaning, high-level disinfection and storage standards and guidelines

# **PRODUCT FAMILIARIZATION**

## **Endoscope Reprocessor Components and their Functions**

- 1. Basin Components: Lid, Left and Right Basin, Fluid Inlet, Spray Head, Connection Manifold, Drain, Overflow and Spray Arm
- 2. PC and PC Connections: On/Off Switch, USB Ports, Serial Ports, CD Drive, Mouse Connection, Power Connection
- 3. Control Panel: Controls, Touchpad, Function Buttons, Selection Buttons
- 4. Foot Switch to open/close Basin Lid
- 5. Interior Components: Access Door, Pressure Gauge, Detergent Reservoir, Alcohol Reservoir, Leak Test Pressure Gauge
- 6. Back Components: Water Supply Inlet, Drain/Discharge Opening, Air Compressor, Casters
- 7. Connection Hook up Block
- 8. Barcode Reader
- 9. Water Filtration System: 1 micron, 0.4 micron and 0.1 micron filters

### **Fluids and Test Strips**

- 1. High-Level Disinfectant (HLD) Rapicide® PA high-level disinfectant, Part A and Part B
- 2. Detergent recommended detergent is Medivators Intercept®
- 3. Alcohol (70% Isopropyl) used to dry inside of endoscope channels
- 4. Test Strips used to test the concentration of the HLD after each cycle

# **OPERATOR CONTROLS**

## **Control Panel**

- 1. Basin Control Buttons (Basin Specific): Open/Close, Start, Cancel, Menu, LED
- 2. Touchpad and Mouse Buttons
- 3. Function Buttons: F1-F5 and ABC for keyboard appearance
- 4. Selection Buttons: OK, Cancel, Scroll Up, Scroll Down

### Software System Programs

- 1. Open LIO (Logic Input/Output) Main software to run an endoscope cycle
- 2. LIO User Screen: Menu Bar, Program Status/Progress, Program Messages, Reservoir Status, System Information
- 3. Management Database for user and run/cycle information
- 4. Server Controls communication between LIO, Management and Advantage Plus
- 5. Print Service (optional) Prints cycle log
- 6. Login Name and Password Many processes require the appropriate authorization
- 7. Backups A backup must be manually executed

# FLUID LOADING AND UNLOADING

## Loading and Refilling Fluids

- 1. Fluid Reservoir Status percentage appears in footer of screen
- 2. Detergent and Alcohol Loading Run "Replace Fluids" then remove and refill
- 3. Loading Disinfectant Run "Replace Fluids" Rapicide PA Part A and Part B bottle replacement

## SYSTEM OPERATIONS

### Startup

1. Verify power, air source and incoming external water pressure regulator is 35-40 PSI during flush or fill cycle. If not, check filters for replacement. Otherwise, call Medivators Technical Support.

#### **Daily Service**

- 1. Check Air Pressure (2.8-3.0 BAR) & Leak Test Gauge (0.24-0.25 BAR)
- 2. Inspect Connection Block and O-rings for wear
- 3. Check Drain Screens for excessive soil and replace if needed
- 4. Check Fluid Levels Rapicide PA Parts A & B, detergent (if applicable), alcohol

#### Prepare Endoscope for Reprocessing

- 1. Place the endoscope in the basin with control knobs facing up in the lower left corner
- 2. Install the Channel Separator onto the endoscope
- 3. Locate proper Hook up Connector Block and insert into manifold
- 4. Connect the tubing from the Connector Block to the endoscope
- 5. Place accessory bag into basin away from drain, tucked under the endoscope

### Endoscope Reprocessing Cycle Summary

- 1. Cycle Startup Phase Monitoring of system sensors
- 2. Leak Test, Channel Monitoring and Channel Blockage Monitoring continuous throughout cycle
- 3. Detergent Flush Phase Water and detergent (if applicable) fill basin for soak and flush through channels
- 4. Disinfectant Phase Endoscope is flushed and soaked with Rapicide PA high-level disinfectant
- 5. Rinse Phase Basin fills with water twice and channels are flushed with water
- 6. Alcohol Phase Alcohol injected into channels to faciliate drying
- 7. Air Purge Phase Air is purged through channels to assist drying

#### Run the Reprocessing Cycle

1. Use Barcode Scanner or manually choose Operator, Endoscope Program, Physician and Patient codes where applicable and close lid to start cycle

### **Complete the Reprocessing Cycle**

- 1. Take sample of disinfectant and test MEC using Rapicide PA Test Strip; dispose of sample
- 2. Retrieve Endoscope Scan or Enter Operator ID and press Open
- 3. Disconnect hookup, remove endoscope and store reprocessed endoscope with all removable parts detached.

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4. Remove hookup connector block.

#### End of Day Shutdown

- 1. Wipe down connector blocks with lint-free cloth and store
- 2. Install Disinfection Blocks
- 3. Wipe lid and control panel with non-scouring cleansing agent
- 4. Wipe basin and inside lid with a lint-free cloth.
- 5. Use soap and water to clean lid gaskets

## Endoscope reprocessing the way it should be

# MAINTENANCE

# TROUBLESHOOTING

#### Weekly Maintenance

- 1. Inspect connector blocks for wear and tear
- 2. Lubricate and inspect manifold O-rings
- 3. Clean Basin Drain Screens
- 4. Run Waterline Disinfection

#### **Monthly Maintenance**

- 1. Replace Basin Drain Filters
- 2. Clean Spray Arm Filters

#### **Three Month Maintenance**

1. Replace 1 Micron and .4 Micron Water Filters every 3 months or if below 35 psi

#### Six Month Maintenance

- 1. Replace 0.1 Micron Water Filter every 6 months or if below 35 psi
- 2. Replace Vapor Management Filter (if applicable)
- 3. Run Waterline Disinfection (if applicable)
- 4. Replace Air Filters

#### **Error Reports**

- 1. Error Types: System, Bar Code, Endoscope, Reprocessing, Control, Warnings
- 2. Operator Messages and Program Errors appear in Reports Field
- 3. Color-coded Program Status Orange, Gray, Red, Blue
- 4. Canceling and Restarting a Program

# SYSTEM ADMINISTRATION

#### Software System Programs

- 1. Open LIO (Logic Input/Output) Main software to run an endoscope reprocessing cycle
- 2. Management Database for user and run/cycle information
- 3. Server Controls communication between LIO, Management and ADVANTAGE Plus and networked units. (Only available to System Administrators)
- 4. Server Software

## **Management Programs**

- 1. General Applications: Cycles, Events, Instruments/ Endoscopes, Users, Physicians/Assistants
- 2. Entering data specific to facility
- 3. Data Management/Printing
- 4. Backups Perform regularly and initiate manually
- 5. Importing/Exporting Data

#### Data Entry with Barcoding

- 1. Data fields
- 2. Adding Endoscope Types, Parameters Sets, and New Endoscopes
- 3. Adding Users/Operators and Physicians/Assistants
- 4. Editing and Deleting Data

#### Reports: Run/Cycle Data Recorded

- 1. View Cycle Logs Open Management in MDS folder
- 2. Select report criteria, time period and run reports & details
- 3. Other reports Events
- 4. Printing Reports

#### Medivators Website "Resource Center"

Go to: www.minntech.com/medivators, Select "Resource Center" and "User Library" for detailed user guides and hook up matrices, report forms and logs, and product bulletins

Medivators Customer and Technical Support Toll Free: Phone: 1-800-444-4729 · FAX: 1-866-421-7696