

# Standard Operating Procedure

## Electronic Display Device: Cleaning and Disinfecting

### SITE APPLICABILITY:

All Lower Mainland Medical Imaging (LMMI) sites in Fraser Health (FH), Providence Healthcare (PHC), Provincial Health Services Authority (PHSA), and Vancouver Coastal Health (VCH)

### PURPOSE:

To provide LMMI staff with a procedure for cleaning medical imaging electronic display devices (displays) using vendor approved cleaning solutions

### SCOPE:

Applicable to primary, secondary plus, secondary, secondary mammography and touch electronic display devices.

Note that “electronic display device” replaces previous terminology used in medical imaging.

EXCLUSION: Control panels for technical factor selection

### RESPONSIBILITIES:

#### All Staff

**Daily:** Inspect and clean as required, displays used for image interpretation

Keep food and drink away from all displays

Do not touch displays used for viewing or reporting images

**When required:** Clean/Disinfect displays

#### Site Designate

Maintain supply of approved cleaning and disinfectant products and lint-free non-abrasive disposable wipes

Obtain a bottle with an appropriate top to enable to liquid to be poured onto a disposable wipe, where required

#### Quality Coordinator or Medical Physicist

**Annual :** Clean primary displays prior to image quality control assessment

### PROCEDURE:

Electronic display device cleaning:

- improves image review accuracy by eliminating particulate such as finger prints, food and drink splashes, etc.
- prevents unnecessary radiation exposure due to repeat imaging required to discern between particulate matter and patient anatomy
- enhances infection control practices by limiting pathogen transfer

The use of proper cleaning solutions, wipes and cleaning methods will maintain the manufacturer warranty and reduce replacement frequency [Appendix A](#) and [Appendix B](#)

It is recommended to use disposable low lint wipes over non-disposable low lint clothes as the latter pose infection control challenges.

# Standard Operating Procedure

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It is recommended to cover the display in plastic when there is a risk of blood and/or body fluid exposure.

If soiling or exposure occurs on the display, immediately clean/disinfect the display.

### Procedure

#### Cleaning: Dust Removal

- a) Perform hand hygiene and turn off device to minimize streaking.
- b) Use a dry lint-free wipe to gently dust electronic display device with horizontal or vertical strokes.

**Never wipe in a circular pattern** as it can create pressure points on the screen

#### If Dust persists:

- a) Dampen lint-free wipe by pouring the vendor approved cleaning product onto lint-free wipe.
  - **Never apply liquid** directly onto display as this can damage electrical components.
  - **Do not use paper towel** as the rough fibers can scratch the display
- b) Wipe display using horizontal or vertical strokes.

**Never wipe in a circular pattern** as it can create pressure points on the screen.

#### Cleaning: Disinfection

- a) Perform hand hygiene and turn off device to minimize streaking.
- b) Dampen lint-free wipe by pouring the vendor approved cleaning product onto lint-free wipe.
- c) Wipe display using horizontal or vertical strokes.

**Never wipe in a circular pattern** as it can create pressure points on the screen

- d) Wipe down remaining device surfaces with vendor approved disinfectant

### REFERENCES/ASSOCIATED DOCUMENTS:

Diagnostic Accreditation Program Standards <https://www.cpsbc.ca/accredited-facilities/dap/accreditation-standards-DI>

Provincial Health Services Authority- MSDS Safety Data Sheets.  
[https://sds.phsa.ca/msds\\_files/10283.pdf](https://sds.phsa.ca/msds_files/10283.pdf)

# Standard Operating Procedure

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### Appendix A: Electronic Display Device Vendor Approved Cleaning Products

NON-TOUCH DISPLAY Manufacturer	Approved Cleaning Products	Active Ingredients
<b>Barco</b>	<ul style="list-style-type: none"> <li>Eizo Screen Cleaner</li> <li>iCloth Wipes</li> <li>Techspray Zero Charge Screen &amp; Keyboard Cleaner</li> <li>WHOOSH! Screen Shine Solution</li> <li>WHOOSH! Screen Shine Wipes</li> </ul>	<ul style="list-style-type: none"> <li>10-20% Ethanol</li> <li>24% Isopropanol</li> <li>60-65% Ethanol, 3% Isopropanol</li> <li>Alcohol &amp; Ammonia Free Proprietary Ingredients</li> <li>Alcohol &amp; Ammonia Free Proprietary Ingredients</li> </ul>
<b>Eizo</b>	<ul style="list-style-type: none"> <li>Eizo Screen cleaner Spray</li> </ul>	<ul style="list-style-type: none"> <li>10-20% Ethanol</li> </ul>
<b>Lenovo</b>	<ul style="list-style-type: none"> <li>Eizo Screen Cleaner Spray</li> <li>iCloth Wipes</li> <li>WHOOSH! Screen Shine Solution</li> <li>WHOOSH! Screen Shine Wipes</li> </ul>	<ul style="list-style-type: none"> <li>10-20% Ethanol</li> <li>24% Isopropanol</li> <li>Alcohol &amp; Ammonia Free Proprietary Ingredients</li> <li>Alcohol &amp; Ammonia Free Proprietary Ingredients</li> </ul>
<b>NEC</b>	<ul style="list-style-type: none"> <li>WHOOSH! Screen Shine Solution</li> <li>WHOOSH! Screen Shine Wipes</li> </ul>	<ul style="list-style-type: none"> <li>Alcohol &amp; Ammonia Free Proprietary Ingredients</li> <li>Alcohol &amp; Ammonia Free Proprietary Ingredients</li> </ul>
<b>View Sonic</b>	<ul style="list-style-type: none"> <li>WHOOSH! Screen Shine Solution</li> <li>WHOOSH! Screen Shine Wipes</li> </ul>	<ul style="list-style-type: none"> <li>Alcohol &amp; Ammonia Free Proprietary Ingredient</li> <li>Alcohol &amp; Ammonia Free Proprietary Ingredients</li> </ul>
TOUCH-SCREEN Manufacturer	Approved Cleaning Products	Active Ingredients
<b>Apple Ipad</b>	<ul style="list-style-type: none"> <li>Eizo Screen Cleaner</li> <li>iCloth Wipes</li> <li>CaviWipes Disinfecting Towlettes</li> <li>Meliseptol Wipes Sensitive</li> </ul>	<ul style="list-style-type: none"> <li>10-20% Ethanol</li> <li>24% Isopropanol</li> <li>17.2% isopropanol</li> <li>20% Isopropanol</li> </ul>
<b>Lenovo HAM 900 LCD TIO</b>	<ul style="list-style-type: none"> <li>Eizo Screen Cleaner Spray</li> <li>iCloth Wipes</li> <li>WHOOSH! Screen Shine Solution</li> <li>WHOOSH! Screen Shine Wipes</li> <li>Virox Accel Wipes</li> <li>CaviWipes Disinfecting Towlettes</li> <li>Meliseptol Wipes Sensitive</li> <li>WHOOSH! Screen Shine Solution</li> <li>WHOOSH! Screen Shine Wipes</li> </ul>	<ul style="list-style-type: none"> <li>10-20% Ethanol</li> <li>24% Isopropanol</li> <li>Alcohol &amp; Ammonia Free Proprietary Ingredients</li> <li>Alcohol &amp; Ammonia Free Proprietary Ingredients</li> <li>0.5% Hydrogen Peroxide</li> <li>17.2% isopropanol</li> <li>20% Isopropanol</li> <li>Alcohol &amp; Ammonia Free Proprietary Ingredient</li> <li>Alcohol &amp; Ammonia Free Proprietary Ingredients</li> </ul>

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### Appendix B: Electronic Display Device Vendor Approved Cleaning Solutions

NON-TOUCH DISPLAY Manufacturer	Approved Ingredients	Unacceptable (NOT APPROVED) Ingredients
<b>Barco</b>	<ul style="list-style-type: none"> <li>Isopropyl Alcohol <math>\leq</math> 70% concentration</li> <li>Lint-Free Cloth or Low-Lint Wipe</li> <li>Distilled Water</li> </ul>	<ul style="list-style-type: none"> <li>Alcohol solution &gt;70% concentration</li> <li>Strong Alkaline or Solvents</li> <li>Acid</li> <li>Detergents with Fluoride, Ammonia or Abrasives</li> </ul>
<b>Eizo</b>	<ul style="list-style-type: none"> <li>Eizo Screen Cleaning Kit (spray and lint free cloth)</li> <li>NOTE: Not approved by Health Canada</li> <li>Distilled water</li> </ul>	<ul style="list-style-type: none"> <li>Any product other than Eizo Screen Cleaner</li> </ul>
<b>Lenovo</b>	<ul style="list-style-type: none"> <li>Isopropyl Alcohol <math>\leq</math> 70% concentration</li> <li>Lint-Free Cloth or Low-Lint Wipe</li> <li>Distilled Water</li> </ul>	<ul style="list-style-type: none"> <li>Isopropyl Alcohol Solutions &gt;70% concentration</li> <li>Ethanol Alcohol</li> </ul>
<b>NEC</b>	<ul style="list-style-type: none"> <li>Alcohol Free, Non-Abrasive Solution</li> <li>Lint-Free Cloth or Low-Lint Wipe</li> <li>Distilled Water</li> </ul>	<ul style="list-style-type: none"> <li>Benzene</li> <li>Thinning Agents</li> <li>Acid or Alkaline Detergent</li> <li>Detergent with Abrasive Powder</li> <li>Antistatic Agents</li> </ul>
<b>ViewSonic</b>	<ul style="list-style-type: none"> <li>Ammonia &amp; Alcohol Free Solution</li> <li>Lint-Free cloth or Low-Lint Wipe</li> <li>Distilled Water</li> </ul>	<ul style="list-style-type: none"> <li>Ammonia</li> <li>Alcohol</li> </ul>
TOUCH-SCREEN Manufacturer	Approved Ingredients	Unacceptable (NOT APPROVED) Ingredients
<b>Apple iPad</b>	<ul style="list-style-type: none"> <li>Isopropyl Alcohol <math>\leq</math> 70% concentration</li> </ul>	<ul style="list-style-type: none"> <li>Bleaches</li> <li>Abrasives</li> <li>Aerosol sprays</li> <li>Acetone</li> <li>Hydrogen Peroxide</li> <li>Isopropyl Alcohol &gt; 70% concentration</li> </ul>
<b>Lenovo HAM 900 LCD TIO</b>	<ul style="list-style-type: none"> <li>Isopropyl Alcohol <math>\leq</math> 70% concentration</li> <li>Lint free cloth or low lint wipe</li> <li>Up to 0.5% Hydrogen Peroxide Wipes</li> <li>Alcohol Based Wipes</li> </ul>	<ul style="list-style-type: none"> <li>Ammonia</li> <li>Ethyl Alcohol</li> <li>Toluene</li> <li>Ethyl Acid</li> <li>Methyl Chloride</li> </ul>

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Effective Date:	03-OCT-2023			
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Approved By:	MIEC	Medical Physicists		Informatics
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Owners: <i>(committee or position)</i>	LMMI Quality Coordinators			
	Radiography Regional Practice Lead, LMMI			
Revision History:	Version	Date	Description/ Key Changes	Revised By (Name and Position)
	1.0	21-APR-2021	Initial Release	Regional Quality Coordinators, LMMI
	2.0	03-OCT-2023	Update to SHOP format Wording changes to improve clarity Condensed cleaning instructions for clarity Update hyperlinks	Regional Quality Coordinators, LMMI

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