



**Clean Guide**

# Comprehensive cleaning concept

ARTIS pheno<sup>®</sup> – Because  
infection control matters

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# Clean Guide – Improve infection control

## **Purpose of this document**

This Clean Guide is a non-binding recommendation developed jointly by Siemens Healthineers and ECOLAB on how to clean and disinfect ARTIS pheno®, and is intended both for intermediate and terminal cleaning. Adaptations due to application- or region-specific requirements need to be considered, as well. This document contains ECOLAB and Siemens Healthineers specific information. Please also observe the individual product information in the operator manual.

## **Indications and caution**

Antibiotic-resistant pathogens are not characterized by a higher resistance to disinfectants. A patient's infection status (e.g. "septic" patients with chronic viral disease like HIV and hepatitis, or patients with multi-resistant pathogens like MRSA and MRGN) does not necessarily indicate:

- changes to the intermediate disinfection of the treatment rooms and ORs or
- an extension of the contact time: extra wetting of the surfaces is not necessary.

All surfaces in the examination rooms must be completely dry before the rooms can be entered or used! In the case of acute infectious diseases with non-enveloped viruses or spores, the standard disinfection process must be adjusted (see recommended materials).

### **Caution:**

- Do not let cleaning liquids seep into the openings of the system, e.g. air openings, gaps between covers.
- Use only substances for cleaning and disinfection, which are recommended.

**Recommended materials**

In this paragraph, we distinguish between materials used to disinfect ARTIS pheno, and those used to disinfect the floor directly surrounding ARTIS pheno:

**for US-market**



Floor disinfection & ARTIS pheno disinfection using the ECOLAB Neutral Disinfectant Cleaner

Floor disinfection & ARTIS pheno disinfection using the ECOLAB Quaternary Disinfectant Cleaner

Floor disinfection & ARTIS pheno disinfection (including disinfection of Clostridium difficile spores) using the ECOLAB OxyCide™ Daily Disinfectant Cleaner.

ARTIS pheno disinfection

**ECOLAB® Neutral Disinfectant**

**ECOLAB® Quaternary Disinfectant Cleaner**

**ECOLAB® OxyCide™ Daily Disinfectant Cleaner**

**ECOLAB® Quaternary Disinfectant Wipes**

**for EU-market**



ARTIS pheno disinfection Standard

ARTIS pheno disinfection Non-enveloped viruses or spores (e.g. hepatitis A, clostridia, norovirus)

Floor disinfection & ARTIS pheno disinfection using the ECOLAB Incidin® Dry Wipe system

**ECOLAB® Incidin® OxyWipes or ECOLAB® Incidin® S OxyWipes**

**ECOLAB® Incidin® S OxyWipes**

**ECOLAB® Incidin® Pro 0.5 impregnated mops & dry wipes**



ARTIS pheno

# General cleaning and disinfection instructions

**While cleaning and disinfecting, wear gloves with chemical resistance.**

- Always work from top to bottom and from clean to dirty areas.
- After removing blood, discard the wet wipe or mop. Use a new one to continue cleaning.
- Use mops and wipes only as long as they leave a closed liquid film on the surface.
- Dispose of used mops and wipes according to the instructions of your facility.

## 1. Preparation

Disinfection of the floor directly surrounding ARTIS pheno system: An adequate number of mops must be prepared in the morning (according to the dilution instructions of Neutral Disinfectant Cleaner, Quaternary Disinfectant Cleaner, Oxicide or Incidin Pro and the instructions for impregnation and saturation of mops at your facility)

Surface disinfection of ARTIS pheno system:

- The buckets of Neutral Disinfectant Cleaner, Quaternary Disinfectant Cleaner, Oxicide or Incidin Dry Wipes for disinfection of surfaces must be filled with respective use solution concentration
- Quaternary Disinfectant Wipes, Incidin OxyWipes or Incidin OxyWipes S must be on hand, if needed

The start of any intermediate disinfection is determined by the nurse. If necessary, the staff can give instructions to remove drapes from areas further away from the patient (e.g. C-arm) and disinfect those while the patient is present in the examination room

Drive ARTIS pheno into "cleaning position" (RAO 90°) and activate block radiation and block unit movements

If used, remove the drapes from C-arm, patient table, control modules, and footswitch

## 2. Intermediate disinfection

In case there is visible soiling of the floor: disinfect the floor below and directly around the patient table.  
Use wet or impregnated dry wipes to disinfect the following surfaces, in the following order (a-i).  
Use the impregnated mops to disinfect the floor. Work from clean to dirty areas.  
The surfaces in the OR must be completely dry before entering.  
Dispose used wipes, mops and, gloves after you have finished cleaning.



a) C-arm: wipe from detector to tube



b) Patient mattress: wipe from head-end to foot-end



c) Control modules:

- Joysticks, buttons, surfaces
- Give attention to the gaps between



d) Upper- and lower-body radiation protection: wipe from the top down in each case



e) Positioning aids and any other accessories used



f) Handles of the monitors  
 • Wipe from the top down in each case



g) Operating light, in this order:  
 • Illuminated area  
 • Outer surface up to the first joint  
 • Handles  
 Work from clean to dirty areas.



h) Footswitch



i) If necessary:  
 • Base of the patient table  
 • Trolley  
 Wipe from the top down in each case

### 3. Terminal disinfection of ARTIS pheno®

The procedure of the terminal disinfection is the same as the procedure of the intermediate disinfection. Additionally, after step i), the following steps of disinfection need to be carried out (before disinfecting the floor):



- j) Mattress: all sides
- k) Monitor: all sides, remove any residues
- l) Patient table surface: wipe from the top down
- m) all surfaces of ARTIS pheno beyond the C-arm: wipe toward the base

### 4. Cleaning

To ensure good hygiene practice, preserve material integrity long-term and avoid any buildup of residues, a regular cleaning step is required. This cleaning step is important, no matter whether cleaner-disinfectants or just disinfectants are used for disinfection.

A cleaner-disinfectant enables a one-step process in most cases, pre-empting a cleaning step preceding each disinfection step. However, use of a cleaner-disinfectant does not replace a regular cleaning process. If ARTIS pheno is used heavily, a weekly cleaning step is strongly recommended.

#### Periodic cleaning of surfaces close to the patient

For cleaning the areas close to the patient, please refer to the process for disinfecting these areas of ARTIS pheno, i.e. steps 2 to 4, above.

#### Cleaning of surfaces not close to the patient

Surfaces which are not close to the patient do not need to be disinfected after each patient, or even every day. The following surfaces have to be cleaned regularly and only disinfected if there is visible contamination:

Elements beyond the joint of the C-arm:

- C-arm: cable routing
- Cover of the robot incl. sealing rubbers and rotating elements

Surfaces below the patient table

- Electrical connections of the table
- Accessory rail at the table
- Cover of the height-adjustable table

Display and display mounts

# Intermediate disinfection

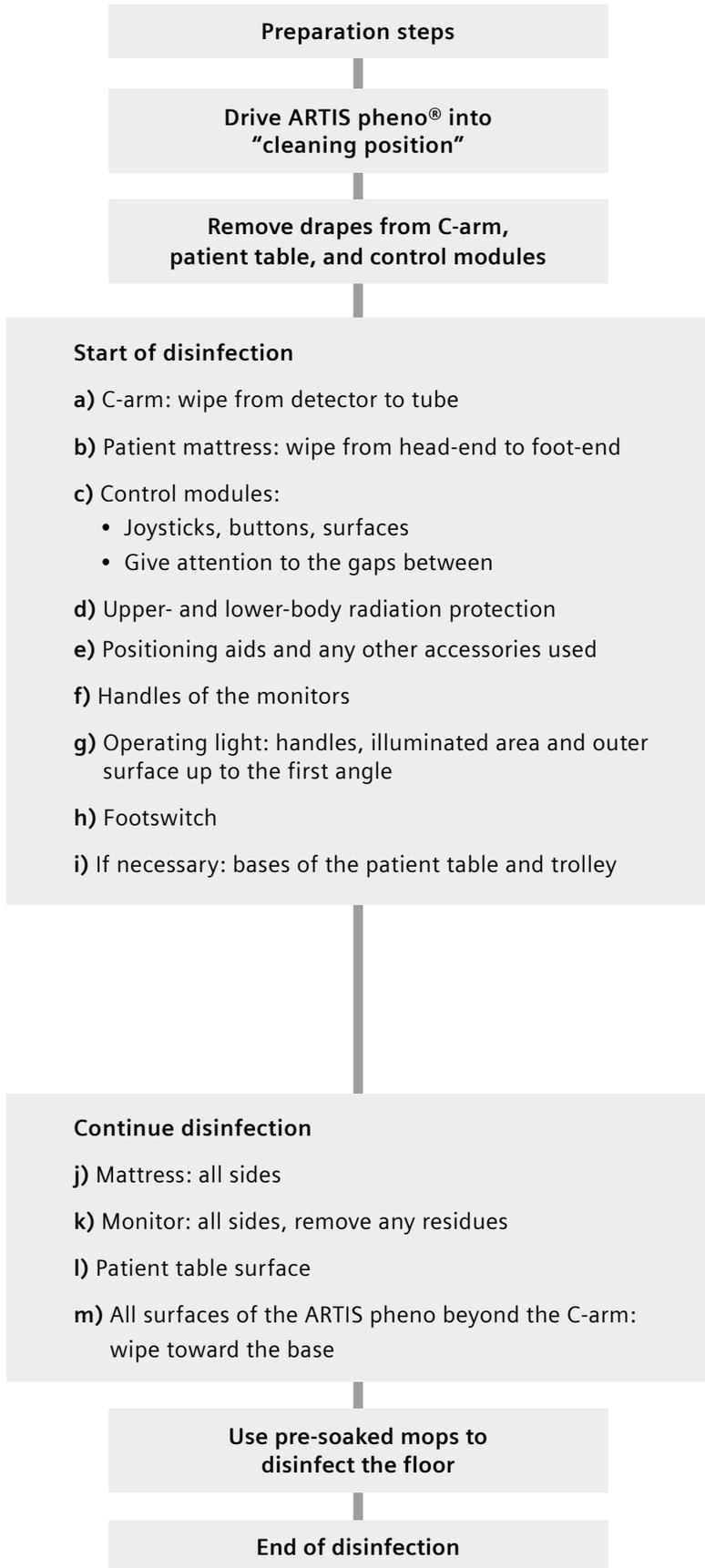
## General Instructions

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- Use mops and wipes only as long as they leave a closed liquid film on the surface.
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# Terminal disinfection

## General Instructions

The surfaces in the examination room must be completely dry before entering.



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ECOLAB products are not sold by Siemens. They have to be ordered, installed, and serviced by way of separate contracts with the vendor in question.

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