

Decontaminating Medical Equipment During the COVID-19 Pandemic

**A Standards Guide for
Bayer in Radiology
Products**



Purpose Statement

Bayer in Radiology is committed to supporting you as we navigate the uncertainties of the COVID-19 pandemic.

This guide is part of our ongoing effort to provide you with tools and information to help alleviate some of these uncertainties, so that you can focus on what is most important – your patients.

In this guide, you will find detailed recommendations for decontaminating your Bayer in Radiology medical equipment after contact with a confirmed or suspected COVID-19 patient.*

Please note, this information is intended to supplement the cleaning and disinfecting procedures outlined in your product Operation Manual.

*For routine cleaning of Bayer in Radiology medical equipment, refer to the instruction in your product-specific Operation Manual. Certain cleaning and disinfecting agents may cause damage to equipment and should not be used; other agents may be used in the near-term to decontaminate equipment during the COVID-19 pandemic but should not be used as a long-term substitute for the products and procedures outlined in the Operation Manual.





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JACR Recommendation

In general, when disinfecting most Bayer in Radiology medical equipment after it has been in contact with a confirmed or suspected COVID-19 patient, Bayer recommends considering the following guidance from the JACR¹:



Wash equipment
with soap and
water

or



Decontaminate equipment
using a low-level or
intermediate-level
disinfectant

**Examples: Iodophor germicidal detergent
solution, ethyl alcohol or isopropyl alcohol**

¹ Kooraki, Soheil, et al. "Coronavirus (COVID-19) outbreak: what the department of radiology should know." Journal of the American College of Radiology (2020).

Protect your patients and avoid costly equipment downtime!



When disinfecting after a confirmed or suspected COVID-19 patient, Bayer recommends discarding any single-use disposables and transfer sets. Please be aware that when removing a MEDRAD® Intego Source Administration Set, the potential for radiation exposure exists and should be considered when evaluating when and how frequently to discard the set.



Electro-Mechanical Hazard Reminder: Always disconnect the system from power when cleaning. Do not soak or immerse any components in water or cleaning solution.

When decontaminating your Certegra® Workstation during the COVID-19 pandemic, consider the following Do's and Don'ts:



DO:

- > Use any of the following agents: Sani-Cloth® Plus Germicidal Disposable Cloths, CaviWipes™ Disinfecting Towelettes, or a disinfectant with 0.25%-0.30% quaternary ammonium compounds and 14.8%-20% isopropanol.
- > Use a stylus when possible to program protocols at the workstation, as avoiding touching the screen with either gloved or ungloved hands may reduce the need to disinfect the display.



DON'T:

- > Spray a cleaner or disinfecting agent directly onto the Certegra® Workstation display. Doing so may cause damage to the device, including touchscreen malfunction. Rather, apply agent to the cloth before cleaning the display or use one of the pre-moistened towelette solutions mentioned to the left.

CT Product Recommendations

MEDRAD® Stellant FLEX CT Injection System and MEDRAD® Stellant CT Injection System with Certegra® Workstation		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Head	Bayer recommends Metrex CaviCide Surface Disinfectant (EPA # 46781-6) from EPA List N: Disinfectants for Use Against SARS-CoV-2 (COVID-19). It contains 17.2% isopropanol and 0.28% quaternary ammonium compounds. Customers may also use an alternative brand within the specified active ingredient percentages provided. If Metrex CaviCide Surface Disinfectant is not available, a list of alternative options is available in the Appendix.	Bayer recommends using any of the following chemicals: Sani-Cloth® Plus Germicidal Disposable Cloth (EPA registration # 9480-6), CaviWipes™ Disinfecting Towelettes (EPA registration # 46781-8) or a disinfectant with 0.25% - 0.30% quaternary ammonium compounds and 14.8% - 20% isopropanol. See Operation Manual for specific instructions.
Pedestal, IV Pole, OCS and Base	Bayer recommends Metrex CaviCide Surface Disinfectant (EPA # 46781-6) from EPA List N: Disinfectants for Use Against SARS-CoV-2 (COVID-19). It contains 17.2% isopropanol and 0.28% quaternary ammonium compounds. Customers may also use an alternative brand within the specified active ingredient percentages provided.	Bayer recommends using any of the following chemicals: Sani-Cloth® Plus Germicidal Disposable Cloth (EPA registration # 9480-6), CaviWipes™ Disinfecting Towelettes (EPA registration # 46781-8) or a disinfectant with 0.25% - 0.30% quaternary ammonium compounds and 14.8% - 20% isopropanol. See Operation Manual for specific instructions. Warning: Do not use chlorine bleach or bleach equivalents on the pedestal.
Syringe Pistons, Interface and Light Pipe	Bayer recommends the use of 70% isopropyl alcohol only . Ensure that the alcohol has dried prior to use of the device.	Use warm water only. Warning: Do not use cleaning agents containing quaternary ammonium compounds, such as Sani-Cloth® Plus, or cleaning agents containing ethyl alcohol, such as Lysol®, on the syringe pistons or syringe interface.
Workstation Display	Bayer recommends Metrex CaviCide Surface Disinfectant (EPA # 46781-6) from EPA List N: Disinfectants for Use Against SARS-CoV-2 (COVID-19). It contains 17.2% isopropanol and 0.28% quaternary ammonium compounds. Customers may also use an alternative brand within the specified active ingredient percentages provided. Warning: Do not spray cleaning or disinfecting agent directly onto the Workstation display.	Bayer recommends using any of the following chemicals: Sani-Cloth® Plus Germicidal Disposable Cloth (EPA registration # 9480-6), CaviWipes™ Disinfecting Towelettes (EPA registration # 46781-8) or a disinfectant with 0.25% - 0.30% quaternary ammonium compounds and 14.8% - 20% isopropanol. See Operation Manual for specific instructions.

CT Product Recommendations

MEDRAD® Stellant Classic CT Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Head	Bayer recommends Metrex CaviCide Surface Disinfectant (EPA # 46781-6) from EPA List N: Disinfectants for Use Against SARS-CoV-2 (COVID-19). It contains 17.2% isopropanol and 0.28% quaternary ammonium compounds. Customers may also use an alternative brand within the specified active ingredient percentages provided. If Metrex CaviCide Surface Disinfectant is not available, a list of alternative options is available in the Appendix.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the assembly. See Operation Manual for specific instructions.
Base	Bayer recommends Metrex CaviCide Surface Disinfectant (EPA # 46781-6) from EPA List N: Disinfectants for Use Against SARS-CoV-2 (COVID-19). It contains 17.2% isopropanol and 0.28% quaternary ammonium compounds. Customers may also use an alternative brand within the specified active ingredient percentages provided.	Wipe the base with a soft cloth, non-abrasive cloth or paper towel dampened with cleaning solution or warm water.
Pedestal Pedestal, IV Pole and OCS	Bayer recommends Metrex CaviCide Surface Disinfectant (EPA # 46781-6) from EPA List N: Disinfectants for Use Against SARS-CoV-2 (COVID-19). It contains 17.2% isopropanol and 0.28% quaternary ammonium compounds. Customers may also use an alternative brand within the specified active ingredient percentages provided.	Clean the pedestal and Integrated IV pole with warm water and mild detergent (such as dishwashing liquid) as needed.
Syringe Pistons and Interface	Bayer recommends Metrex CaviCide Surface Disinfectant (EPA # 46781-6) from EPA List N: Disinfectants for Use Against SARS-CoV-2 (COVID-19). It contains 17.2% isopropanol and 0.28% quaternary ammonium compounds. Customers may also use an alternative brand within the specified active ingredient percentages provided. If Metrex CaviCide Surface Disinfectant is not available, a list of alternative options is available in the Appendix.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the assembly.
Display (DCU)	Bayer recommends use of any of the following chemicals, which have been tested for chemical resistance and determined to be acceptable for the specified system components: 70% Isopropyl Alcohol, Quaternary Ammonium Compounds, up to 10% Sodium Hypochlorite Solution or 3% Hydrogen Peroxide.	Wipe the touch screen with a soft cloth, non-abrasive cloth or paper towel dampened with cleaning solution or warm water.

CT Product Recommendations

MEDRAD® EnVision CT Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Syringe Piston and Head	Bayer recommends the use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the assembly.
Touch Screen	Bayer recommends the use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Using alcohol wipes or isopropyl alcohol and an applicator, carefully clean the assembly. Ensure isopropyl alcohol has dried prior to use of the device.

MEDRAD® MCT CT Injection System and MEDRAD® MCT Plus CT Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
System	Bayer recommends the use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the system.

CT Product Recommendations

MEDRAD® Vistron CT Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
System	Bayer recommends the use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the system.

MEDRAD® XDS Extravasation Detection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
System	Refer to Operation Manual instruction or contact the Bayer Clinical Performance Center for further assistance.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the system. Allow all components to dry thoroughly before using.

CV Product Recommendations

MEDRAD® Mark 7 Arterion Angiographic Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Head, Piston, Syringe Interface, Display, Pedestal, Power Unit and Table Bracket	Bayer recommends the use of up to 10% Sodium Hypochlorite solution .	Clean injection system components, except for the heat maintainer and pressure jacket, with a germicidal wipe or a bleach wipe for isolation patients.
Plastic Drop Front Cover	Bayer recommends use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Clean the Drop Front Cover with a soft cloth or a paper towel dampened with a cleaning solution to remove contrast media and other contamination.
Heat Maintainer	Bayer recommends use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the heat maintainer.
Pressure Jacket	Bayer recommends use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Clean the Pressure Jacket with a soft cloth or a paper towel dampened with a cleaning solution to remove contrast media and other contamination. Bayer recommends that the pressure jacket be washed in a solution of warm tap water (35°– 45° C) and mild non-abrasive detergent (neutral grade low pH, enzymatic cleaner), and then rinsed thoroughly and dried with a soft towel. A solution of dish washing detergent and water is compatible with the pressure jacket. If a germicidal cleaning agent is desired, contact the germicide manufacturer to check the recommended dilution and compatibility with polycarbonates. If the solution is acceptable, follow the manufacturer's directions exactly.

CV Product Recommendations

MEDRAD® Avanta Fluid Management Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
DCU, Syringe Heat Maintainer, Bottle Heat Maintainer, pedestal and Table Mount Brackets	Bayer recommends use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the system components. Do not use strong industrial cleaning solvents such as acetone. Do not use methyl alcohol on disposable sets.
Fluid Control Module, Head, Piston, Syringe Interface, Power Unit	Bayer recommends use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the system components. Do not use strong industrial cleaning solvents such as acetone. Do not use methyl alcohol on disposable sets.
Pressure Jacket	Bayer recommends use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Clean the Pressure Jacket with a soft cloth or a paper towel dampened with a cleaning solution to remove contrast media and other contamination. Bayer recommends that the pressure jacket be washed in a solution of warm tap water (35°– 45° C) and mild non-abrasive detergent (neutral grade low pH, enzymatic cleaner), and then rinsed thoroughly and dried with a soft towel. A solution of dish washing detergent and water is compatible with the pressure jacket. If a germicidal cleaning agent is desired, contact the germicide manufacturer to check the recommended dilution and compatibility with polycarbonates. If the solution is acceptable, follow the manufacturer's directions exactly.

CV Product Recommendations

MEDRAD® Mark V ProVis Angiographic Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Injection System	Bayer recommends use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the system components. Do not use strong industrial cleaning solvents.

MEDRAD® Mark V Angiographic Injection System and MEDRAD® Mark V Plus Angiographic Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Injection System	Bayer recommends use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the system components. Do not use strong industrial cleaning solvents.
Injection System	Bayer recommends use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the system components. Do not use strong industrial cleaning solvents.

MEDRAD® Mark IV Angiographic Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Injection System	Bayer recommends use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	With a warm damp cloth, wipe off all spilled contrast media and any other residue, using detergent as necessary. Wipe with a clean damp cloth to remove the detergent.

MR Product Recommendations

MEDRAD® MRXperion MR Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Head, Pedestal and Base	Bayer recommends Metrex CaviCide Surface Disinfectant (EPA # 46781-6) from EPA List N: Disinfectants for Use Against SARS-CoV-2 (COVID-19). It contains 17.2% isopropanol and 0.28% quaternary ammonium compounds. Customers may also use an alternative brand within the specified active ingredient percentages provided. If Metrex CaviCide Surface Disinfectant is not available, a list of alternative options is available in the Appendix.	Bayer recommends using any of the following chemicals: Sani-Cloth® Plus Germicidal Disposable Cloth (EPA registration # 9480-6), CaviWipes™ Disinfecting Towelettes (EPA registration # 46781-8) or a disinfectant with 0.25% - 0.30% quaternary ammonium compounds and 14.8% - 20% isopropanol. See Operation Manual for specific instructions.
Syringe Pistons and Interface	Bayer recommends the use of 70% isopropyl alcohol only . Ensure isopropyl alcohol has dried prior to use of the device.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the system components. Do not use strong industrial cleaning solvents.
Workstation	Bayer recommends Metrex CaviCide Surface Disinfectant (EPA # 46781-6) from EPA List N: Disinfectants for Use Against SARS-CoV-2 (COVID-19). It contains 17.2% isopropanol and 0.28% quaternary ammonium compounds. Customers may also use an alternative brand within the specified active ingredient percentages provided. Warning: Do not spray cleaning or disinfecting agent directly onto the Workstation display.	Bayer recommends using any of the following chemicals: Sani-Cloth® Plus Germicidal Disposable Cloth (EPA registration # 9480-6), CaviWipes™ Disinfecting Towelettes (EPA registration # 46781-8) or a disinfectant with 0.25% - 0.30% quaternary ammonium compounds and 14.8% - 20% isopropanol. See Operation Manual for specific instructions.

MR Product Recommendations

MEDRAD® Spectris Solaris EP MR Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Injection System	Bayer recommends the use of one of the following: Hydrogen Peroxide, Up to 10% Sodium Hypochlorite Solution, Up to 70% Isopropyl Alcohol.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the system and components.

MEDRAD® Spectris Solaris MR Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Injection System	Bayer recommends the use of one of the following: Hydrogen Peroxide, Up to 10% Sodium Hypochlorite Solution, Up to 70% Isopropyl Alcohol.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the system and components.

MEDRAD® Spectris MR Injection System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Injection System	Bayer recommends the use of one of the following: Hydrogen Peroxide, Up to 10% Sodium Hypochlorite Solution, Up to 70% Isopropyl Alcohol.	Using a soft non-abrasive cloth, warm water, and a mild disinfectant, carefully clean the system and components.

MR Product Recommendations

MEDRAD® Veris MR Monitoring System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Exterior Surface of Monitor	Bayer recommends following instructions outlined in the Veris Operation Manual, which describe decontamination protocols that can be used to disinfect after contact with a COVID-19 patient.	The exterior surface of the monitor, except for the display screen, may be wiped clean with alcohol and dried with a soft, dry cloth. It is best to use a cotton cloth to clean the monitor. Paper towels or tissues can scratch the surface of the display. Clean the display window by wiping it with a clean, soft, lint-free cloth sprayed with common glass cleaner. Do not spray glass cleaner directly on the display.
Blood Pressure Cuffs	Bayer recommends following instructions outlined in the Veris Operation Manual, which describe decontamination protocols that can be used to disinfect after contact with a COVID-19 patient.	The reusable blood pressure cuff may be cleaned by wiping it with a damp cloth or sponge. If necessary, the cuff may be disinfected by wiping with 70% alcohol, mild bleach solution, or other disinfectant. Disposable blood pressure cuffs are for single patient use and are not intended to be disinfected. The cloth cuff and neoprene bag may be sterilized with commercially available disinfectants such as ethylene oxide (EtO). Rinse thoroughly to remove any residual disinfectants. Do not allow liquids to enter the neoprene bag. The cloth cuff may also be sterilized in an autoclave. If the cuffs become grossly soiled with blood or other body fluids, the cloth cuffs should be laundered by hand or machine. The dacron cloth cuff may be laundered or sterilized by first removing the neoprene inflation bag. Feed the inflation tube back through the hole and then pull out the cloth flap.
Temperature Cable and Probe	Bayer recommends following instructions outlined in the Veris Operation Manual, which describe decontamination protocols that can be used to disinfect after contact with a COVID-19 patient.	Wipe clean with alcohol and disinfect by wiping the cable and probe in a 2% glutaraldehyde solution.
Pulse Oximeter Sensors	Bayer recommends following instructions outlined in the Veris Operation Manual, which describe decontamination protocols that can be used to disinfect after contact with a COVID-19 patient.	The SpO2 sensor may be wiped clean with alcohol. The SpO2 sensor may be disinfected by placing the pads and cable in a 2% glutaraldehyde solution. Place only the sensor paddles and cable in the solution.

Intego Product Recommendations

MEDRAD® Intego PET Infusion System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
Injection System	Bayer recommends use of 70% isopropyl alcohol only. Ensure isopropyl alcohol has dried prior to use of the device.	Use a mild cleaning solution for the interior of shielded chamber, exterior of cart, touchscreen, vial shield and needle insertion guide.

OCS Product Recommendations

MEDRAD® OCSII Overhead Counterpoise System		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
System	Bayer recommends the use of one of the following: Mild Dish Detergent, Hydrogen Peroxide, Up to 10% Sodium Hypochlorite Solution, Up to 90% Isopropyl Alcohol.	Use a soft cloth or sponge moistened with a cleaning agent to gently wipe exterior surfaces of the OCS. Thoroughly clean the mounting system and head to remove contrast media and other deposits. Use warm water and soft cloths to clean the components. Clean the velcro cable wraps by twisting the cable wrap to break up dried contrast, then wash in warm water and mild soap. Allow time for the system to dry thoroughly before using it. Do not dry by applying heat from any source.

OCSIII (Portegra 2 and 2i)		
Component	PANDEMIC RESPONSE: Recommended Disinfecting Protocol After Contact with COVID-19 Patient	ROUTINE CLEANING PROTOCOL: Summary Guidance from Product Operation Manual
System	Please refer to instructions from MAVIG, the Original Equipment Manufacturer for the OCSIII.	Please refer to instructions from MAVIG, the Original Equipment Manufacturer for the OCSIII.

Appendix

Bayer recommends the use of Metrex CaviCide Surface Disinfectants to decontaminate the Bayer in Radiology equipment components shown below.

If Metrex CaviCide is not available, it can be substituted for one of the following options, which have been tested for chemical resistance and determined to be acceptable for the specified system components:

- 70% Isopropyl Alcohol
- 3% Hydrogen Peroxide
- Lysol® Brand II™ Spray
- 1:10 Bleach Equivalent
- 96% Ethanol Alcohol



MEDRAD® MRXperion
MR Injection System
Head



MEDRAD® Stellant
CT Injection
System Head

At every step, Bayer is there with Services that deliver a lifetime of value



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CT and MR
Technology**



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