



MEDRAD XDS™

Extravasation Detector Technology for the
Stellant® CT Injection System

MEDRAD XDS™

Your patients have confidence in you. You should have confidence in the devices you use to protect their safety.

The new MEDRAD XDS™ extravasation detector technology for the Stellant® CT Injection System directly senses contrast or saline pooling under a patient's skin during a Computed Tomography (CT) procedure. The patented XDS technology is designed to prevent moderate to severe extravasations that may seriously injure patients.

Reliable Radiofrequency Technology Makes the Difference

The MEDRAD XDS uses patented and safe radiofrequency (RF) wave technology to reliably detect an extravasation and stop the injection before the extravasation becomes severe.

Upon Activation, the XDS establishes a baseline measurement for the specific patient. During the injection, the XDS passes an RF signal through the injection site tissue to directly detect the presence of an extravasation (Figure 1). The signal passes freely through the tissue when there is no extravasated fluid. If an extravasation occurs, the signal change is detected and the injection is stopped.

Easy to use without interrupting workflow

- Exclusive RF wave technology enables the XDS to minimize false positive detections that interrupt workflow
- Set up is quick and easy
- XDS sterile disposables are designed to allow easy and consistent positioning of the XDS sensors every time
- MEDRAD's exclusive HandiSTRIPS™ are like having a third hand to quickly and easily secure the catheter, tubing and XDS components
- Sterile HandiSTRIPS can replace non-sterile tape and eliminate the need to manually prepare strips of tape for each procedure



"No one wants to experience a bad extravasation, but continually aborting perfectly good procedures because you think you have an extravasation is impractical."

Dr. Michael Federle; UPMC Pittsburgh, Pennsylvania, U.S.A.

Enhanced patient safety at every step

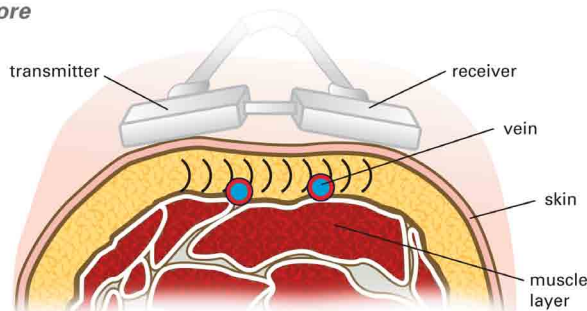


1. The sensors of the XDS are placed on the patient where they will not interfere with palpation, a "critical step in preventing significant extravasation" according to the American College of Radiology's Manual on Contrast Media²
2. HandiSTRIPS help you achieve compliance with current CDC recommendations for the proper insertion of Catheter-over-needles to reduce the risk of infection³
3. The XDS self-test feature verifies correct operation of the sensors prior to attaching the XDS to each patient, so you can be confident that the system is working properly
4. Upon Activation, the XDS establishes a baseline for each patient to optimize its ability to detect an extravasation

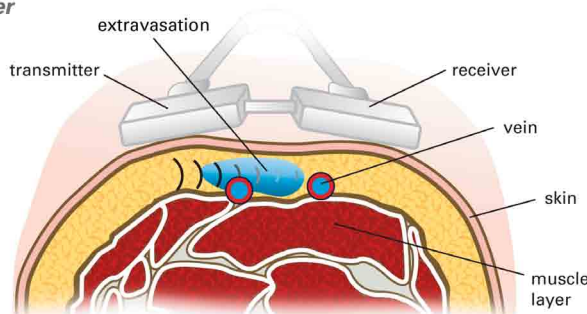
The XDS fully integrates with MEDRAD's Stellant CT Injection System, which was developed with patient safety as a priority. Saline Test Inject allows you to confirm patency of the vein before delivering contrast. The Pressure Monitor Graph displays real-time pressure during injection, enabling the operator to quickly identify pressure issues, and reduce patient risk.

Figure 1

Before



After



MEDRAD's exclusive detection technology reliably detects extravasations while still low in volume, typically 5 – 11 mL, to prevent a serious event, while minimizing false positives that interrupt workflow and inhibit productivity.

One serious extravasation is one too many

Although the frequency of serious extravasations is low⁴, just one major event can put your patients at risk, subject your hospital and staff to liability costs, and potentially damage your hospital's reputation. By using the XDS on every patient, you are more likely to prevent a serious extravasation and the costs associated with it.

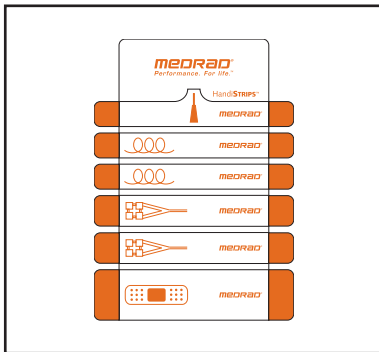
Backed by MEDRAD reliability, support and service

- Legendary product reliability
- Unmatched after-sales support
- Knowledgeable and reliable technical service
- Ask about MEDRAD's Predictive Maintenance Programs and Extended Warranties



Performance. For life.

Since 1964, MEDRAD has been developing products that clinicians worldwide rely on to provide outstanding performance every time they're used. Performance that helps physicians diagnose patients more accurately and, ultimately, deliver quality patient care. You will find that same level of performance – along with the high level of customer support you've come to expect from MEDRAD – with the new Extravasation Detector Technology for the Stellant® CT Injection System.



Ordering Information

System

Extravasation Detector System, includes:
 Scan Room Module
 Control Room Module
 Patient Sensor Assembly

Catalog Number

XDS 700
 SRM 700
 CRM 700
 PSA 700

Accessories

Power Cord - N. America and Japan 535-0243-012
 Power Cord - International 535-0127-012
 Power Cord- China 3013369

Disposables

Patient Interface Disposable (PID) (includes XDS SID and HandiSTRIP)	XDS PID	Box of 100
HandiSTRIP only	XDS HS	Box of 100
Sensor Interface Disposable (SID) only	XDS SID	Box of 100

Specifications

Scanner Room Module (SRM)

Dimensions: 13.0" (33.0 cm) Long; 5.0" (12.7 cm) Wide; 6.0" (15.2cm) Deep
 Weight: 4.5 lbs (2.0 kg)

Control Room Module (CRM)

Dimensions: 11.5" (29.2 cm) Long; 9.0" (22.9 cm) Wide; 3.5" (8.9 cm) Deep
 Weight: 2.65 lbs (1.20 kg)

Patient Sensor Assembly

Dimensions: 86" (218.4 cm) Long; 1.86" (4.7 cm) Wide; 0.30" (0.76 cm) Deep

Power Cords

North America and Japan: 12 ft. (3.6 m)
 International: 9.8 ft. (3 m)
 China: 8.2 ft. (2.5 m)

Environmental Specifications Non-Operating: (Transportation and Storage)

Temperature: -25° C to 65° C (-13° F to +149° F)
 Humidity: 5% to 95% R.H., non-condensing
 Air Pressure: 48 kPa to 110 kPa
 480 hPa to 1,100 hPa Operating

1,4 Paice, Timothy. "Economic Impact of an Extravasation: An Analysis." May 2007. Imaging Economics. Accessed 25 May, 2007.

<http://www.imagingeconomics.com/issues/articles/2007-03_05.asp?mode=print&>.

2 "Injection of Contrast Media" American College of Radiology. Accessed 25 May 2007.

<http://www.acr.org/s_acr/bin.asp?TrackID=&SID=1&DID=16696&CID=213&VID=2&DOC=File.pdf>.

3 O'Grady NM, Alexander M, Dellinger E.P et al "Guidelines for the Prevention of Intravascular Catheter-Related Infections." 9 August 2002. Center for Disease Control and Prevention. Accessed 25 May, 2007.

<<http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5110a1.htm>>.

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