



Sterile Radiation Protective Drapes Radionex® AS100
Angio

distributed by **MAVIG**

Sterile Radiation Protective Drapes

Why Put Yourself at Risk?

Interventional radiologists take the risk of constantly exposing themselves to the harmful effects of radiation. It is therefore mandatory to minimize this risk, but without compromising patient-care quality. Conventional protective aprons and suspended lead acrylic shields are an efficient means in blocking a significant amount of scattered radiation. However, recent studies by MAVIG show that even with this first line of defense, a significant amount of radiation still reaches the physician from below.

Scattered radiation, which originates from the patient volume radiographed, travels through the patient's body tissue far enough that it passes underneath a suspended shield before exiting the body. Therefore this escaped radiation from below cannot be avoided, even if the shield is positioned tightly against the patient.

For these reasons, MAVIG has introduced a new series of sterile, single-use radiation drapes: Radionex®.

Radionex® AS100 Sterile Radiation Protective Drapes

Radionex consists of a lead-free, protective inner material, which can be simply disposed of after use. The application-specific designs of Radionex drapes provide perfect protection for the physician without influencing the way they work. In addition, special adhesive strips on the backside of the drape allow for easy re-positioning to make sure it does not conflict with the imaging field. The outer material of Radionex is made of an absorbent fabric to keep fluids such as blood and saline. These features make Radionex an easy addition to any physician's radiation protection system, without noticing any difference in clinical procedure.

Efficiency of Radionex® AS100

The efficiency of the Radionex AS1001-High drape in reducing scattered radiation during cardiac angiography procedures was evaluated in a clinical study performed in a Cardiac Catheterization room, which was equipped with a GE Innova 3100 X-ray imaging system. Factors that affect scattered radiation doses were taken into account in the study consisting of 28 cases randomly classified into cases that used Radionex protection and cases performed without. Patient radiation dose, expressed as Dose-Area-Product (DAP) ($\text{Gy} \cdot \text{cm}^2$), fluoroscopy time (min) and patient BMI were recorded for each procedure.

Results showed a 72.5 % reduction in the scattered radiation received by the cardiologist.

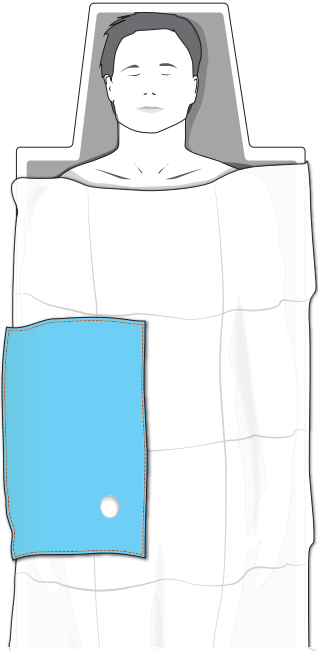
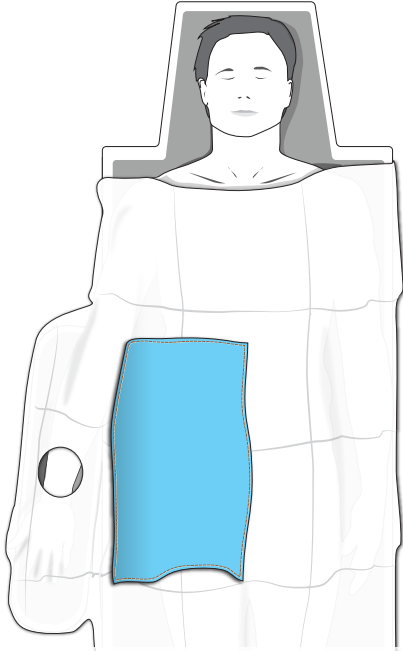
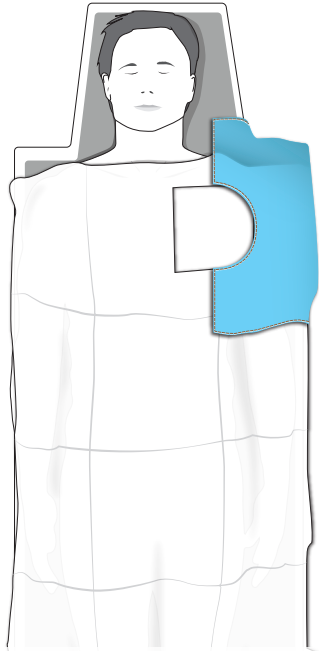
Radiation Attenuation at 90 kV

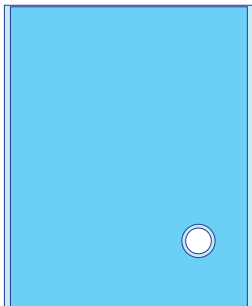
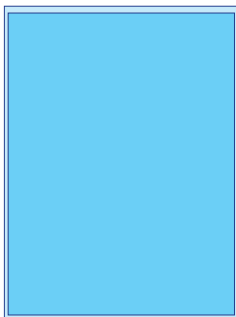
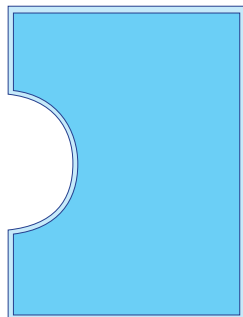
Low Pb 0.05 mm	Medium Pb 0.15 mm	High Pb 0.30 mm
75.3 %	90.8 %	95.3 %

Attenuation measurements at broad beam according to: EN 1331-1 (IEC 61331-1 and ASTM-2547-06)
Lead equivalents according to DIN 6857-1:2009 in the tube voltage range from 60 - 120 kV

- Sterile / disposable - No cross contamination
- Lead free material - Environmentally friendly
- Dose reduction **up to 95 %**
- Supports ALARA radiation safety principle (as low as reasonable achievable)
- Repositionable - Does not affect physician's work routine
- Fluid absorbent outer material
- Available in different levels of protection: Low/Medium/High

Radionex® AS100 drapes provide excellent protection for the physician and his team from scattered radiation by reducing the received dose by up to 95 %.

									Application
AS1001 „Angio“ For Angiography via Femoral Access			AS1005 „Multi“ For Angiography via Radial Access, as well as Other Applications			AS1007 „Surgery“ For EP, Pacemaker as well as PCNL			
1 Box of 15 Drapes			1 Box of 15 Drapes			1 Box of 15 Drapes			
High AS1001H Medium AS1001M Low AS1001L			High AS1005H Medium AS1005M Low AS1005L			High AS1007H Medium AS1007M Low AS1007L			
30 x 40 cm			30 x 40 cm			30 x 40 cm			
Qty.			Qty.			Qty.			Order Details
Size			Size			Size			

Femoral		Radial		Left Subclavian/PCNL		Shape
						



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