SCATTER GUARD

SCATTERGUARD DRAPE GUIDE

by Protech Medical

SCATTERGUARD^{ActiV} PATIENT DRAPES





DISPOSABLE

LATEX FREE

3M ADHESIVE







ECO-FRIENDLY

ABSORBANT

STERILE



ScatterGuard Patient Drapes protect surgeons and technicians from the harmful effects of scatter radiation during surgical procedures without any added weight.

Our lead-free, latex-free drapes are uniquely designed to provide tailored coverage for a variety of procedures. Scatterguard drapes are made from our Prolite core material which is specially formulated to provide over 20% more protection at higher exposures than the competition. The drape exterior features our highly-absorbant ActiV material with a plastic, laminated inner layer. In addition, high quality 3M adhesive ensures secure positioning of the drape.

ABSORBANCY

Fabric Type	Weight	Absorbancy Rate (sec/ml)	Absorbant Capacity
Leading Competitor 1	109 gsm	1.9 sec/ml	526%
Leading Competitor 2	130 gsm	2.5 sec/ml	600%
ActiV Absorbant	120 gsm	1.2 sec/ml	620%

PROTECTION PROPERTIES

Lead Equivalence	0.060mm	0.125mm	0.25mm*	0.375mm
Attenuation at 90kVp	50%	75%	90%	95%+

*Certified to ASTM 2547-18 and IEC 61331-1:2014 Standards [CE 2895]

SCATTER RADIATION

SCATTER VERSUS DIRECT BEAM RADIATION

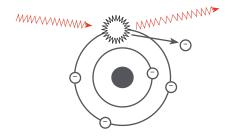
Image intensifiers have enabled surgeons to become technically more proficient and decrease the morbidity of the patient by minimizing area of operative field and decreasing operative time. Some over-use fluoroscopy, forgetting the principles of radiation protection, while others under-use it due to unfounded fears. In general, surgeons lack awareness about the radiation exposure they are getting and its effects on health.

SCATTER RADIATION

These X-ray photons remove an outer shell electron from its orbit, thereby ionizing the atom. Low energy radiation interacts with body tissue then scatters in different directions.

LOW ENERGY - SCATTERED

Compton Effect

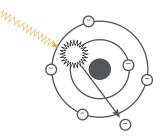


DIRECT BEAM RADIATION

These X-ray photons carry enough energy to eject an inner shell electron from its orbit. The High energy radiation penetrates and passes through the patient for imaging.

HIGH ENERGY - ABSORBED

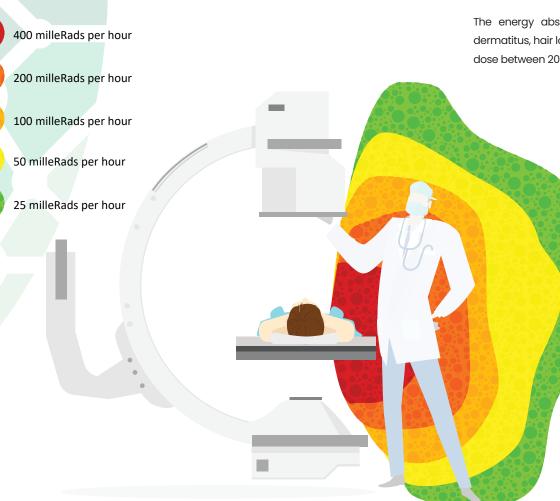
Photoelectric Effect





THE DANGERS OF SCATTER RADIATION

During procedures requiring fluoroscopy, direct beam radiation contacts a patient and "scatters" towards the surgeon and other personnel. This means surgeons and assistants are at maximum risk due to proximity to exposure area. **"The scattered radiation from the patient comprises the main source of radiation dose to staff."** [1]



According to the National & International Conferences on Radiation Protection (ICRP & NCRP), "Lens/Eye Dose should be limited to 15 RADs per year." Based on an average Lens/Eye Dose of 62 milleRads per hour and an average of 576 hours of Fluoroscopy per year some clinicians are receiving doses of 35.7 RADs per year. In a 30 year career this amounts to 1,071 RADs, if the operator is standing upright; far more if crouched or seated (about 5,184 RADs).

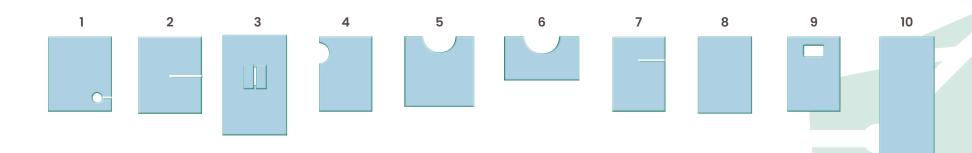
The energy absorbed from ionizing radiation can cause cataracts, tumors, skin dermatitus, hair loss and germ cell mutations. In fact, "Cataracts occur with cumulative dose between 200 to 500 RADS." [2].

LONG STORY SHORT ...

A SIR published study concluded "...leaded glasses and scatter-draping drapes substantially reduced lens dose by factors of 9.5 and 12 respectively. Maximal eye drapeing was achieved by the use of both leaded glasses and scatter-draping drapes." [3]

 International Atomic Energy Agency
- National & International Conferences on Radiation Protection
- Drs. Dauer & Thorton, Memorial Sloan Kettering Medical Center, Society of Interventional Radiology 2009

SCATTERGUARD DRAPE MODELS



Product	Model	Dimensions	Fenestration	UOM
(1) Angiography Drape with Circular Fenestration	SG-AD-060/125/250/375	14.5″ x 16.5″	2" Circle	10/BX
(2) Biliary Split Access Drape with Center Slit Fenestration	SG-BD-125/250/375	14.5″ x 16.5″	5" Center Slit	10/BX
(3) Dialysis Drape	SG-DSD-125/250/375	32″ x 50″	4.5″ x 9″ Box	10/BX
(4) EP Left Subclavian Drape with Scoop Fenestration	SG-EPD-125/250/375	13.5″ x 17.5″	3.25" x 2.25" Scoop	10/BX
(5) EP Drape - Large with Center Scoop Fenestration	SG-EPDC-LG-250	16″ x 16″	5.75″ x 3″ Scoop	10/BX
(6) EP Drape - Small with Center Scoop Fenestration	SG-EPDC-SM-250	11″ x 16″	5.75″ x 3″ Scoop	10/BX
(7) Jugular Access / TIPS Drape	SG-JUG-125/250/375	13.5″ x 17.5″	5″ Slit	10/BX
(8) Multipurpose Drape	SG-MPD-060/125/250/375	13.5" x 17.5"	None	10/BX
(9) Multipurpose Drape with Box Fenestration	SG-MPD-F-060/125/250/375	13.5" x 17.5"	3.5" x 2" Box	10/BX
(10) Peripheral Drape	SG-PPD-125/250/375	12" x 35"	None	10/BX



ANGIOGRAPHY DRAPE

Model #	SG - AD
Dimensions	14.5″ x 16.5″
Fenestration	2" Circle Fenestration
Attenuation	See protection properties chart
Lead Equivalence	0.06, 0.125, 0.25, or 0.375mm LE
Core material	Prolite Max
Quantity	10 per box













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PROCEDURES FOR ANGIOGRAPHY DRAPE

Angiography, Coronary Catheterization, UFE, Pelvic Surgery and TACE



PROCEDURES FOR BILIARY SPLIT ACCESS

DRAPE

Transjugular intraheptic portosystematic shunt (TIPS)



BILIARY SPLIT ACCESS DRAPE

Model #	SG - BD	
Dimensions	14.5″ x 16.5″	
Fenestration	5" Center Slit Fenestration	
Attenuation	See protection properties chart	
Lead Equivalence	0.125, 0.25, or 0.375mm LE	
Core material	Prolite Max	
Quantity	10 per box	













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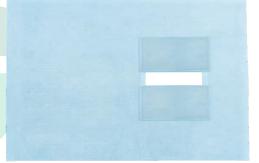
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DIALYSIS DRAPE



Model #	SG - DSD
Dimensions	32″ x 50″
Fenestration	4.5" x 9" Fenestration
Attenuation	See protection properties chart
Lead Equivalence	0.125, 0.25, or 0.375mm LE
Core material	Prolite Max
Quantity	10 per box













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PROCEDURES FOR DIALYSIS DRAPE

Dialysis access and declotting, Fistulagram



PROCEDURES FOR EP LEFT SUBCLAVIAN

DRAPE

Bi-ventricular pacemaker implants, Bi-ventricular pacing and ICS procedures



EP LEFT SUBCLAVIAN DRAPE

Model #	SG - EPD	
Dimensions	13.5″ x 17.5″	
Fenestration	3.5" x 2.5" Scoop Fenestration	
Attenuation	See protection properties chart	
Lead Equivalence	0.125, 0.25, or 0.375mm LE	
Core material	Prolite Max	
Quantity	10 per box	







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EP DRAPE (LARGE) WITH SCOOP FENESTRATION

Model #	SG - EPDC-LG
Dimensions	16″ x 16″
Fenestration	5.75" x 3" Scoop Fenestration
Attenuation	See protection properties chart
Lead Equivalence	0.25mm LE
Core material	Prolite Max
Quantity	10 per box













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PROCEDURES FOR EP DRAPE (LARGE) WITH SCOOP FENESTRATION

Bi-ventricular pacemaker implants, ICS procedures and bi-ventricular pacing



PROCEDURES FOR EP DRAPE (SMALL) WITH SCOOP FENESTRATION

Bi-ventricular pacemaker implants, Bi-ventricular pacing and ICS procedures



EP DRAPE (SMALL) WITH SCOOP FENESTRATION

Model #	SG - EPDC-SM	
Dimensions	11″ x 16″	
Fenestration	5.75" x 3" Scoop Fenestration	
Attenuation	See protection properties chart	
Lead Equivalence	0.25mm LE	
Core material	Prolite Max	

10 per box





Quantity



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JUGULAR ACCESS/TIPS DRAPE



Model #	SG - JUG
Dimensions	13.5″ x 17.5″
Fenestration	5" Slit Fenestration
Attenuation	See protection properties chart
Lead Equivalence	0.125, 0.25, or 0.375mm LE
Core material	Prolite Max
Quantity	10 per box













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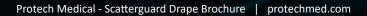
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PROCEDURES FOR EP JUGULAR ACCESS/TIPS DRAPE

Transjugular intraheptic porosystemic shunt



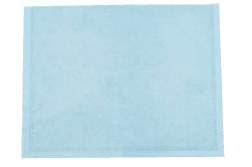
PROCEDURES FOR MULTIPURPOSE DRAPE

Needle Biopsy or Puncture Procedures





MULTIPURPOSE DRAPE



Model #	SG - MPD	
Dimensions	13.5″ x 17.5″	
Fenestration	None	
Attenuation	See protection properties chart	
Lead Equivalence	0.06, 0.125, 0.25, or 0.375mm LE	
Core material	Prolite Max	
Quantity	10 per box	



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MULTIPURPOSE DRAPE WITH FENESTRATION



Model #	SG - MPDF
Dimensions	13.5″ x 17.5″
Fenestration	3.5" x 2" Box Fenestration
Attenuation	See protection properties chart
Lead Equivalence	0.06, 0.125, 0.25, or 0.375mm LE
Core material	Prolite Max
Quantity	10 per box













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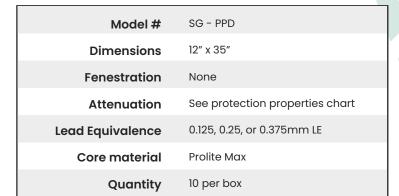
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PROCEDURES FOR MULTIPURPOSE DRAPE WITH FENESTRATION

Needle Biopsy or Puncture Procedures

PROCEDURES FOR PERIPHERAL DRAPE

Peripheral procedures where access is through the femoral artery



SCATTER

GUNZO

PERIPHERAL DRAPE













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