



PROTECH MEDICAL

SCATTERGUARD DRAPE GUIDE

SCATTER RADIATION

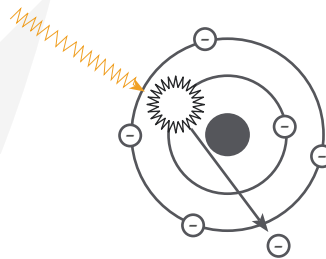
VERSUS DIRECT BEAM RADIATION

DIRECT BEAM RADIATION

A result of the photoelectric effect, this high energy radiation is absorbed. 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



VS

SCATTER RADIATION

A product of the Compton effect, this low energy radiation is scattered. 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

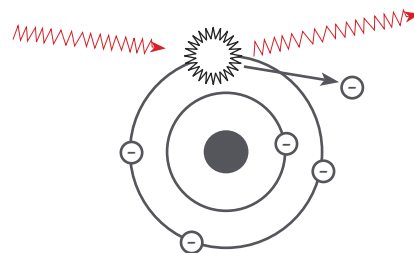


Image intensifiers have enabled surgeons to become technically more proficient and decrease the morbidity of the patient by minimizing area of operative field and decreasing operative time. Some over-use fluoroscopy, forgetting the principles of radiation protection, while others under-use it due to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



THE EFFECTS OF SCATTER

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

WHO IS AT RISK?

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).

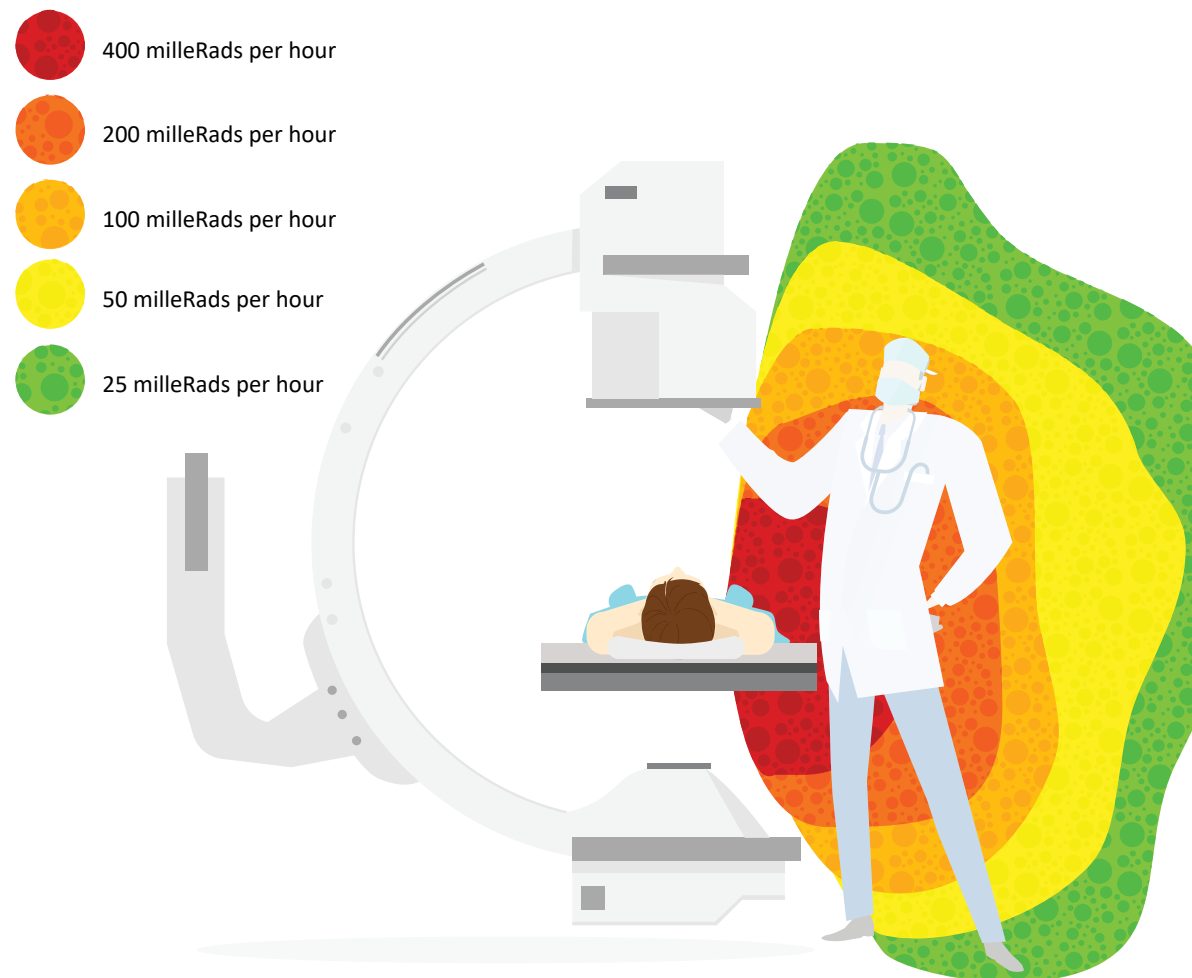
[1] – International Atomic Energy Agency

[2] – National & International Conferences on Radiation Protection

[3] – Drs. Dauer & Thorton, Memorial Sloan Kettering Medical Center, Society of Interventional Radiology 2009

WEAR PROTECTION!

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



SCATTERGUARD DRAPES

PROTECT YOURSELF AGAINST SCATTER RADIATION

Tested in accordance with ASTM and IEC standards, ScatterGuard drapes provide excellent protection against scatter radiation for fluorolab and operating suite personnel during interventional procedures. These drapes are placed upon the patient's body, so you can enjoy the benefits of added protection without any extra weight!

Scatterguard drapes conform to the patient's body and feature 3M adhesive backing to prevent slippage. They are lead-free, latex-free, and sterile and may be disposed of through normal waste and are custom designed for each procedure. The drape interior is made from our high-quality, Prolite lead-free core material while the exterior fabric is a USA-made, absorbent material with a laminated/sealed plastic inner layer. All Scatterguard drape models are sold by the box (10 per box).

CERTIFIED TO ASTM F2547-18 STANDARDS [CE 2895*].

>> IEC 61331-1:2014 certified drapes available upon request

PROTECTION PROPERTIES

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

*CE applies to 0.25mm LE only.

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%



ECO-FRIENDLY



LATEX FREE



STERILE



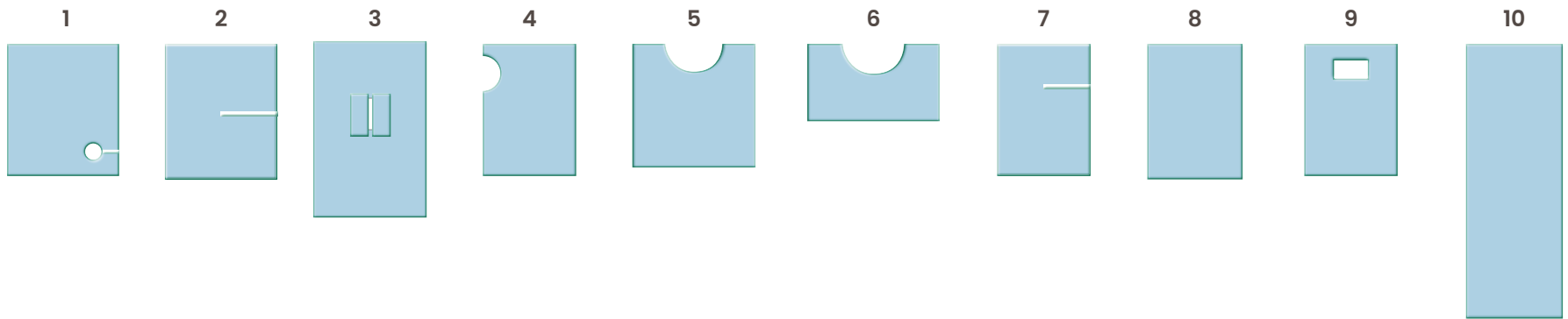
DISPOSABLE



HIGH ABSORBANCY



3M ADHESIVE

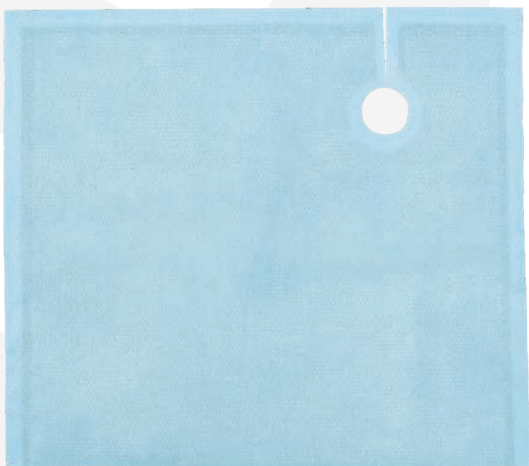


Product	Model	Dimensions	Fenestration	UOM
(1) Angiography Drape with Circular Fenestration	SG-AD-060/125/250/375	14.5" x 16.5"	2" Circle	10/BX
(2) Biliary Split Access Drape with Center Slit Fenestration	SG-BD-125/250/375	14.5" x 16.5"	5" Center Slit	10/BX
(3) Dialysis Drape	SG-DSD-125/250/375	32" x 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



**SCATTER
GUARD**

ANGIOGRAPHY 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 (LE)	Attenuation at 90kVp
0.060mm	50%
0.125mm	75%
*0.25mm	90%
0.375mm	95%

*CE applies to 0.25mm LE only.

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



ECO-FRIENDLY



HIGH ABSORBANCY



STERILE



DISPOSABLE

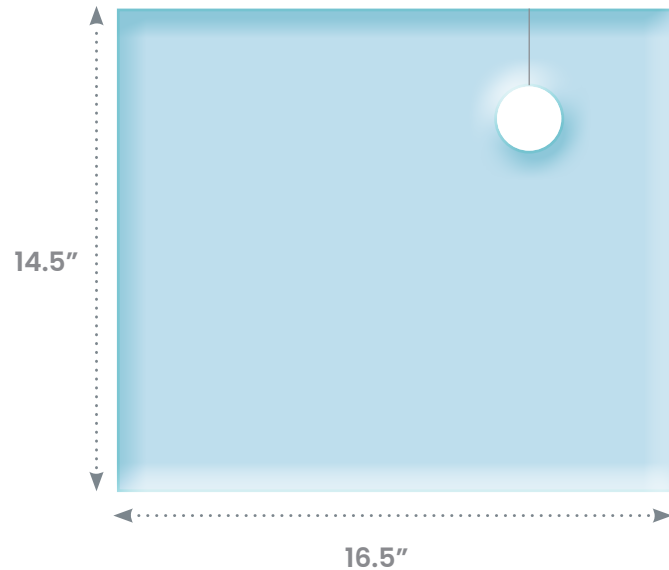


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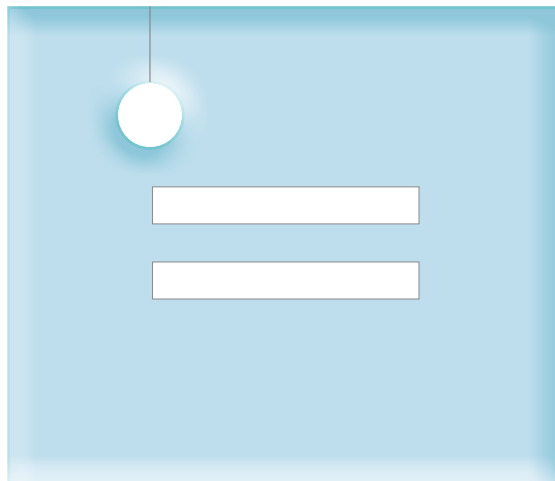


3M ADHESIVE

FRONT

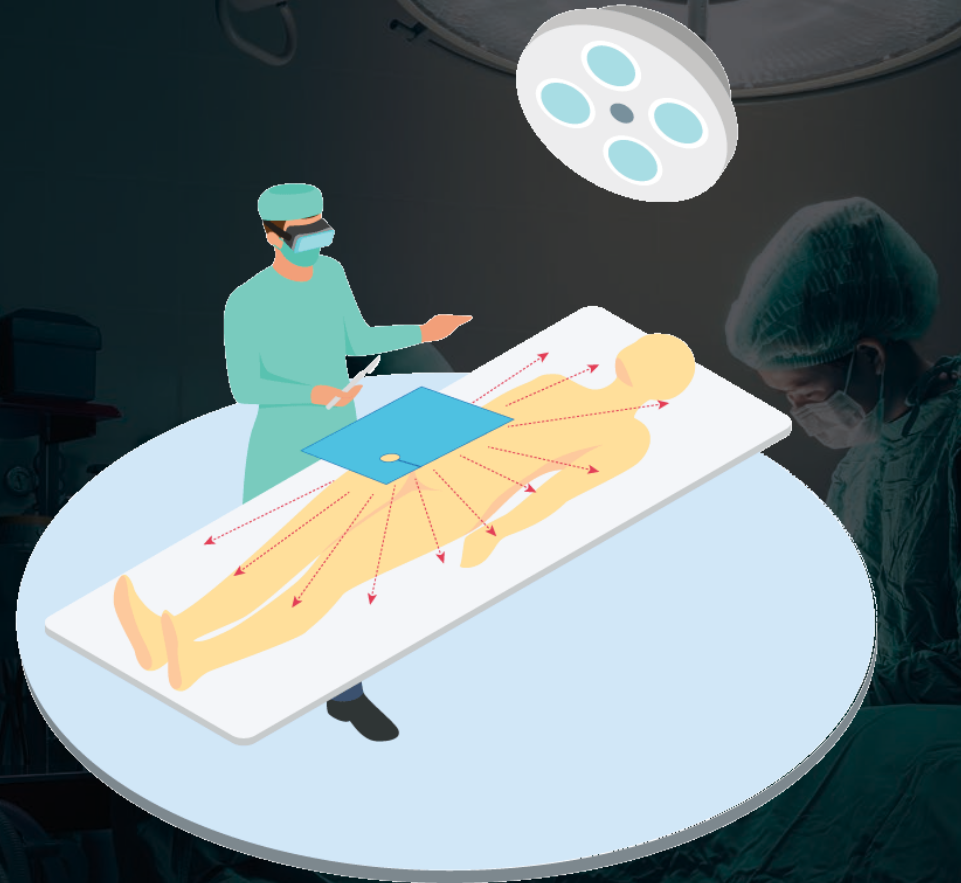


BACK



NOTE: Adhesive is located on the back of the drape (seen here). Be sure to place adhesive side down towards patient when applying the drape.

DRAPE POSITIONING



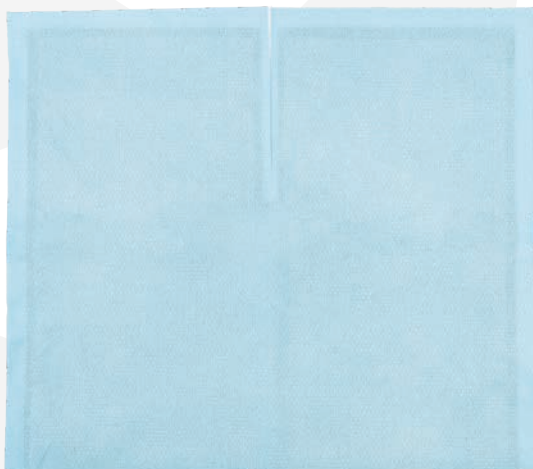
PROCEDURES FOR ANGIOGRAPHY DRAPE

**Angiography, Coronary Catheterization, UFE,
Pelvic Surgery and TACE**



**SCATTER
GUARD**

BILIARY SPLIT ACCESS 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 (LE)	Attenuation at 90kVp
0.060mm	50%
0.125mm	75%
*0.25mm	90%
0.375mm	95%

*CE applies to 0.25mm LE only.

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



ECO-FRIENDLY



HIGH ABSORBANCY



STERILE



DISPOSABLE

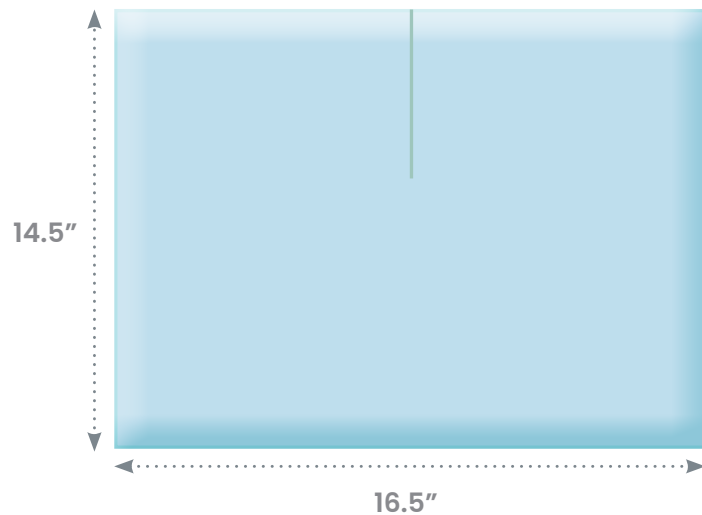


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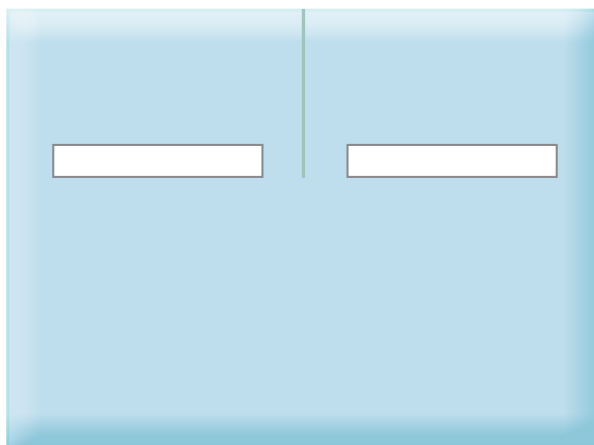


3M ADHESIVE

FRONT

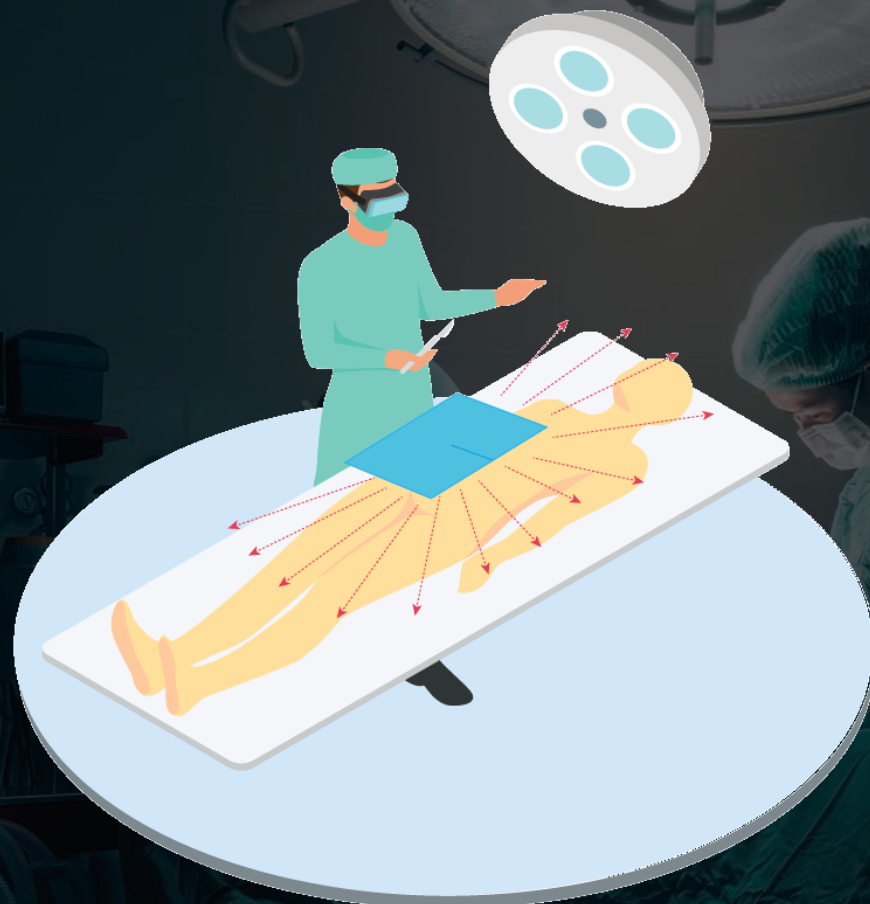


BACK



NOTE: Adhesive is located on the back of the drape (seen here). Be sure to place adhesive side down towards patient when applying the drape.

DRAPE POSITIONING



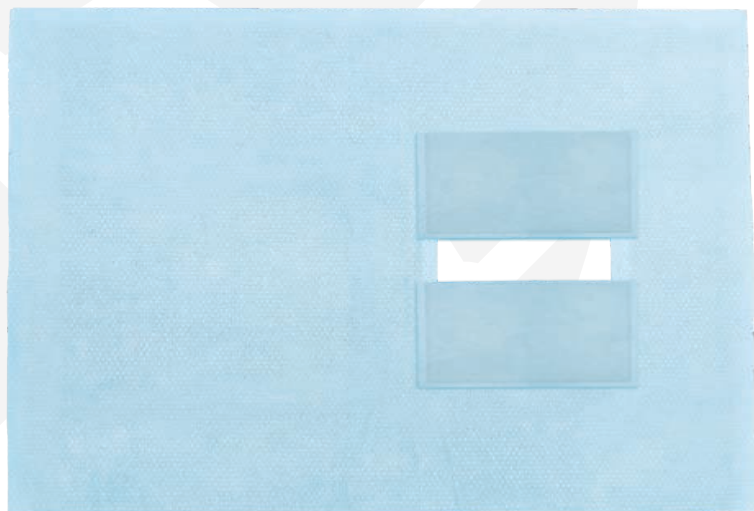
PROCEDURES FOR BILIARY SPLIT ACCESS DRAPE

**Transjugular intrahepatic portosystematic shunt
(TIPS)**



**SCATTER
GUARD**

DIALYSIS 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 (LE)	Attenuation at 90kVp
0.060mm	50%
0.125mm	75%
*0.25mm	90%
0.375mm	95%

*CE applies to 0.25mm LE only.

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



ECO-FRIENDLY



HIGH ABSORBANCY



STERILE



DISPOSABLE

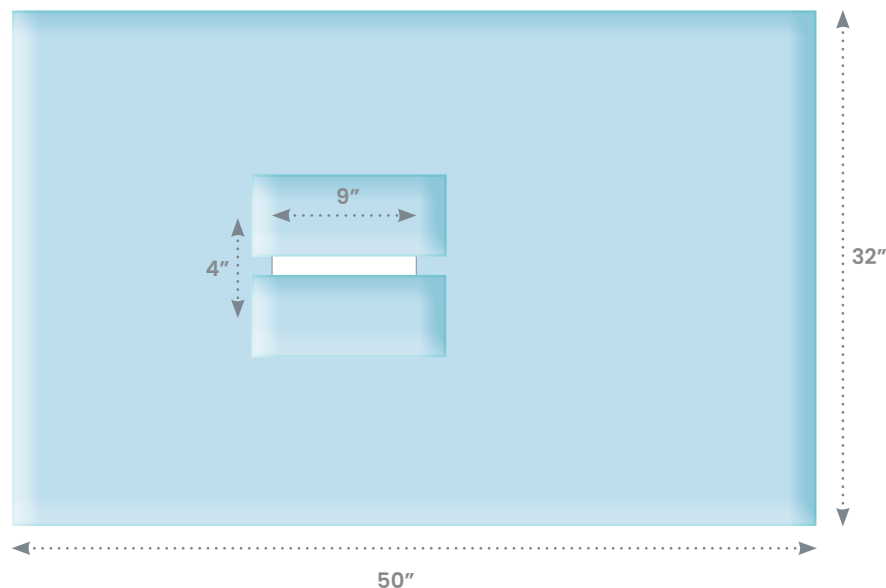


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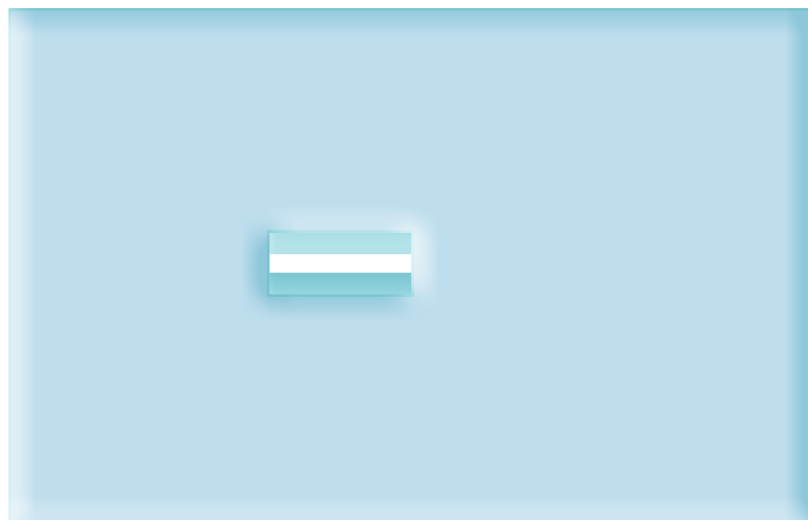


3M ADHESIVE

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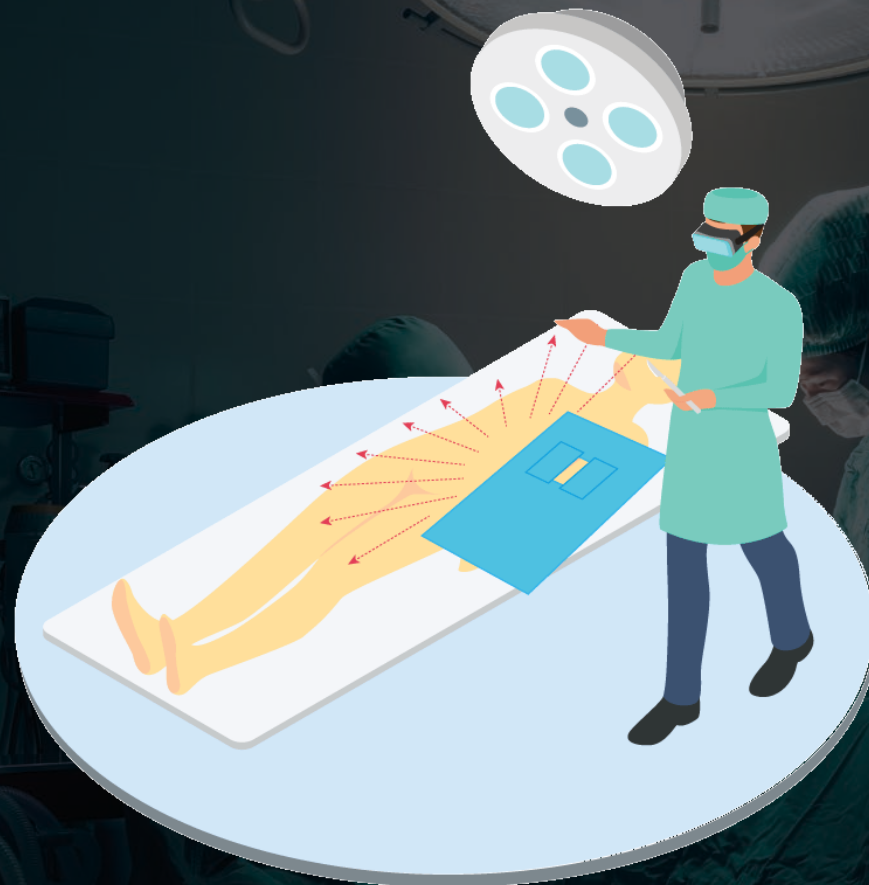


BACK



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DRAPE POSITIONING



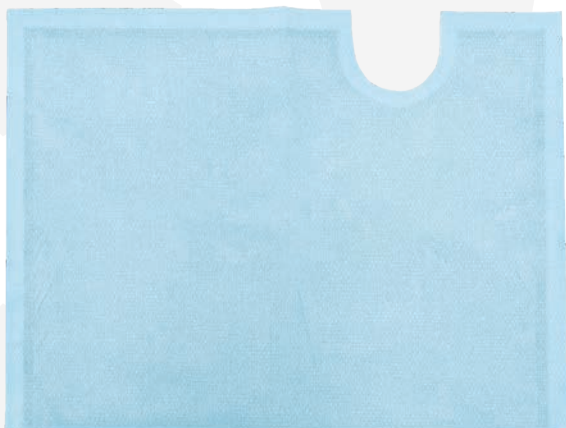
PROCEDURES FOR DIALYSIS DRAPE

Dialysis access and declotting, Fistulagram



**SCATTER
GUARD**

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

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 (LE)	Attenuation at 90kVp
0.060mm	50%
0.125mm	75%
*0.25mm	90%
0.375mm	95%

*CE applies to 0.25mm LE only.



ECO-FRIENDLY



HIGH ABSORBANCY



STERILE



DISPOSABLE

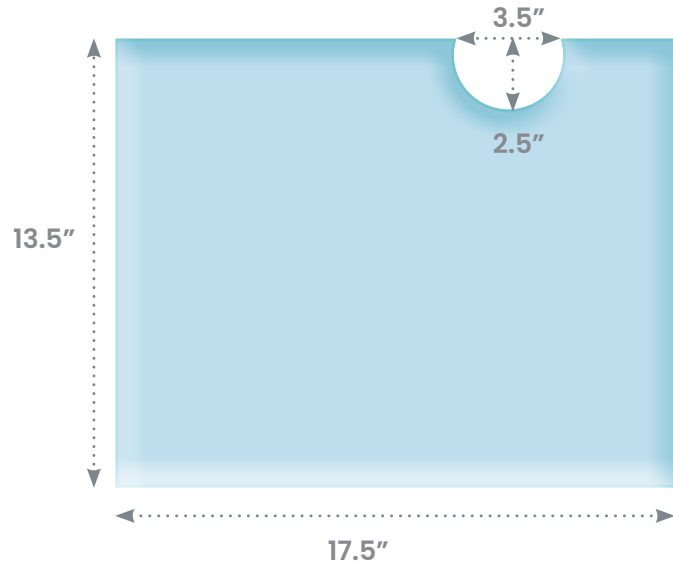


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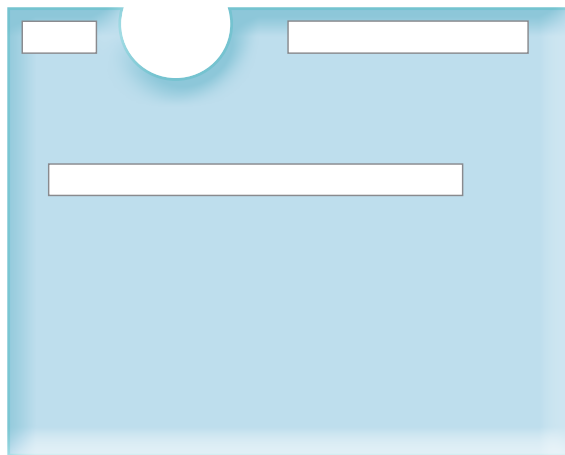


3M ADHESIVE

FRONT

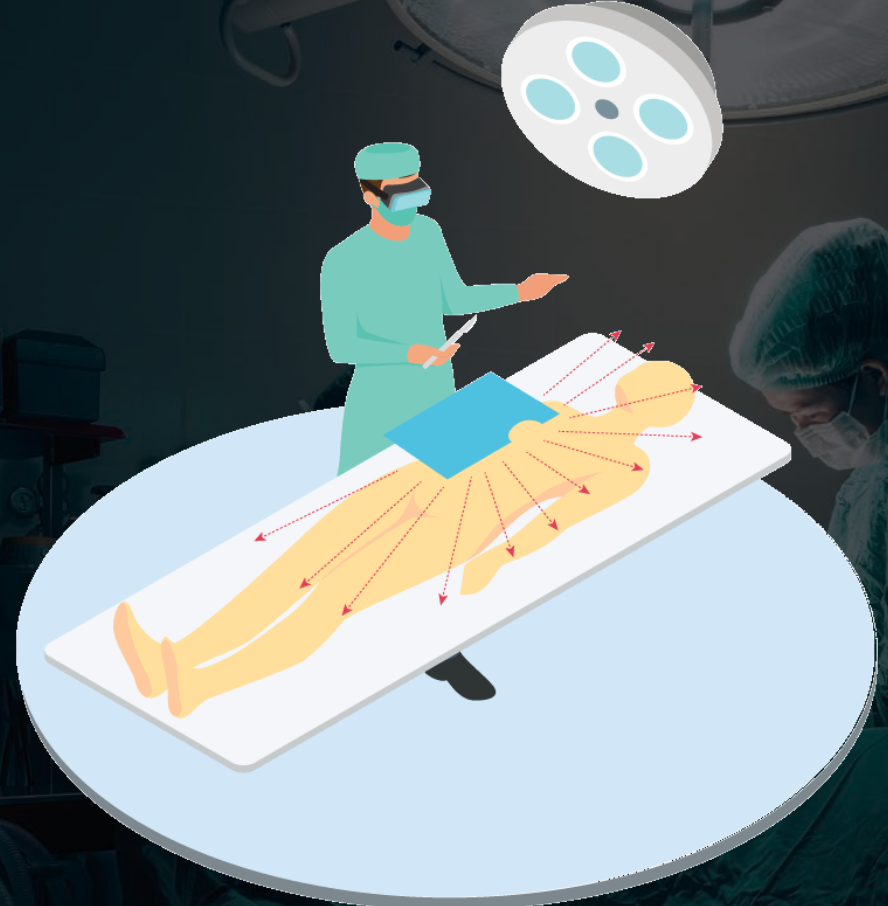


BACK



NOTE: Adhesive is located on the back of the drape (seen here). Be sure to place adhesive side down towards patient when applying the drape.

DRAPE POSITIONING



PROCEDURES FOR EP LEFT SUBCLAVIAN DRAPE

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



**SCATTER
GUARD**

EP DRAPE (LARGE) WITH SCOOP FENESTRATION



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 (LE)	Attenuation at 90kVp
0.060mm	50%
0.125mm	75%
*0.25mm	90%
0.375mm	95%

*CE applies to 0.25mm LE only.

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



ECO-FRIENDLY



HIGH ABSORBANCY



STERILE



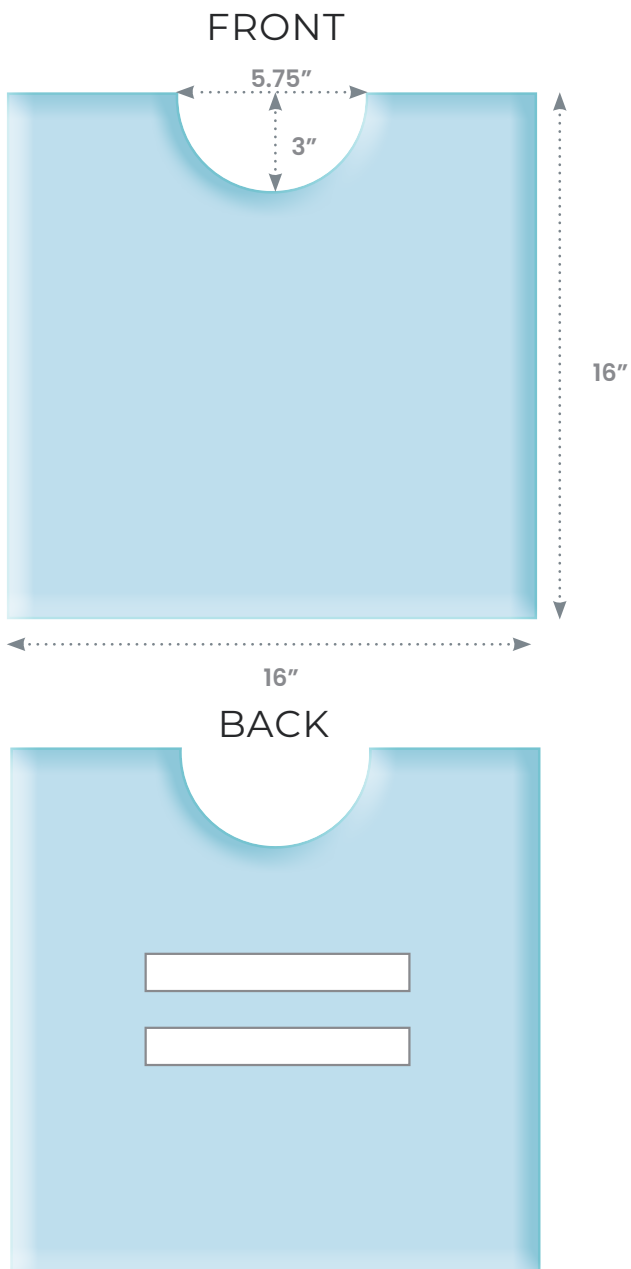
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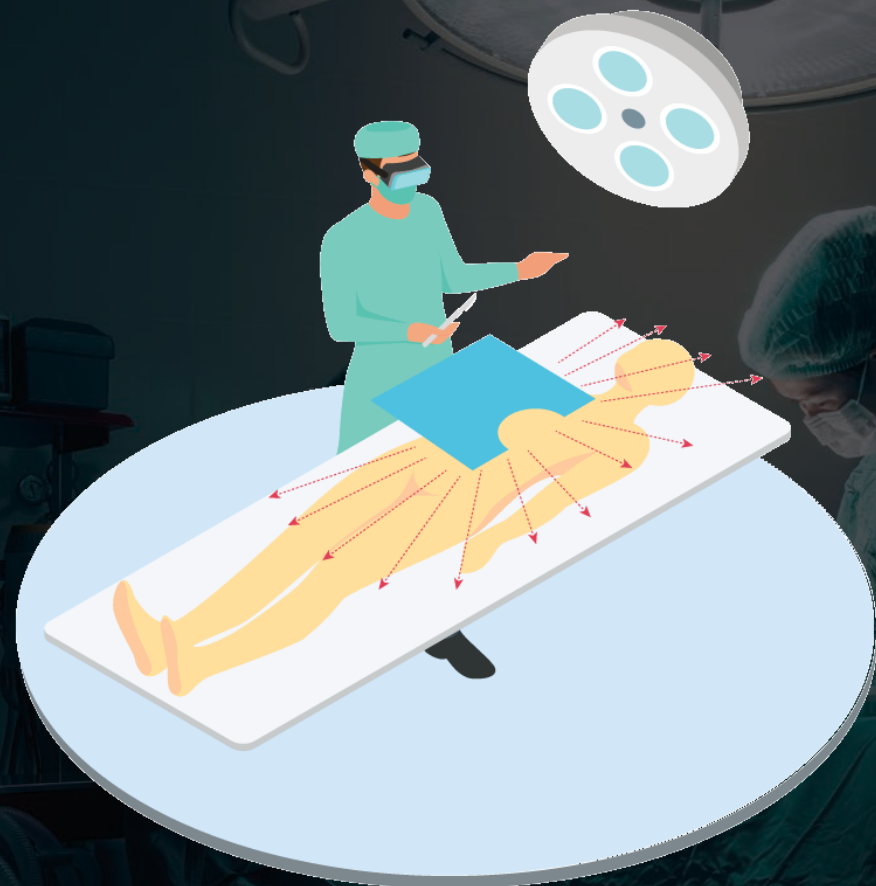


3M ADHESIVE



NOTE: Adhesive is located on the back of the drape (seen here). Be sure to place adhesive side down towards patient when applying the drape.

DRAPE POSITIONING



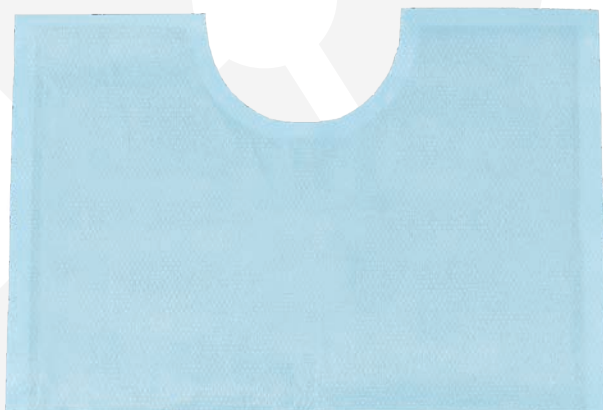
PROCEDURES FOR EP DRAPE (LARGE) WITH SCOOP FENESTRATION

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



**SCATTER
GUARD**

EP DRAPE (SMALL) WITH SCOOP FENESTRATION



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 (LE)	Attenuation at 90kVp
0.060mm	50%
0.125mm	75%
*0.25mm	90%
0.375mm	95%

*CE applies to 0.25mm LE only.

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
Quantity	10 per box



ECO-FRIENDLY



HIGH ABSORBANCY



STERILE



DISPOSABLE

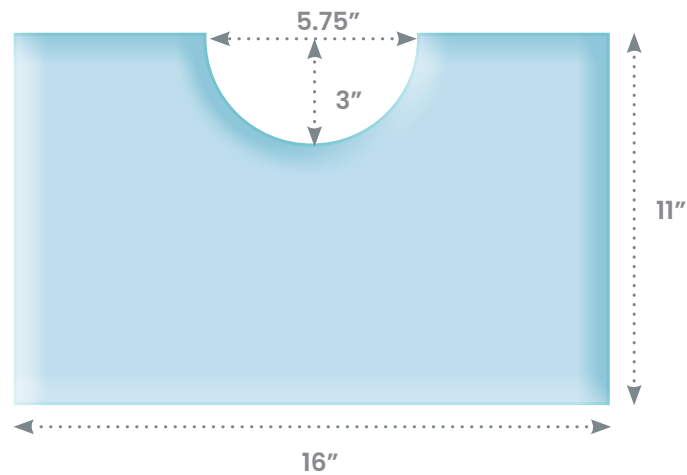


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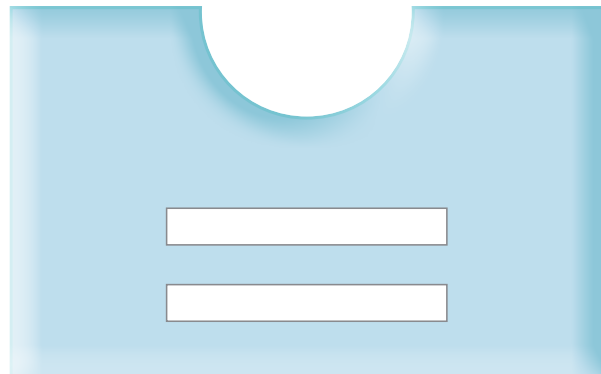


3M ADHESIVE

FRONT

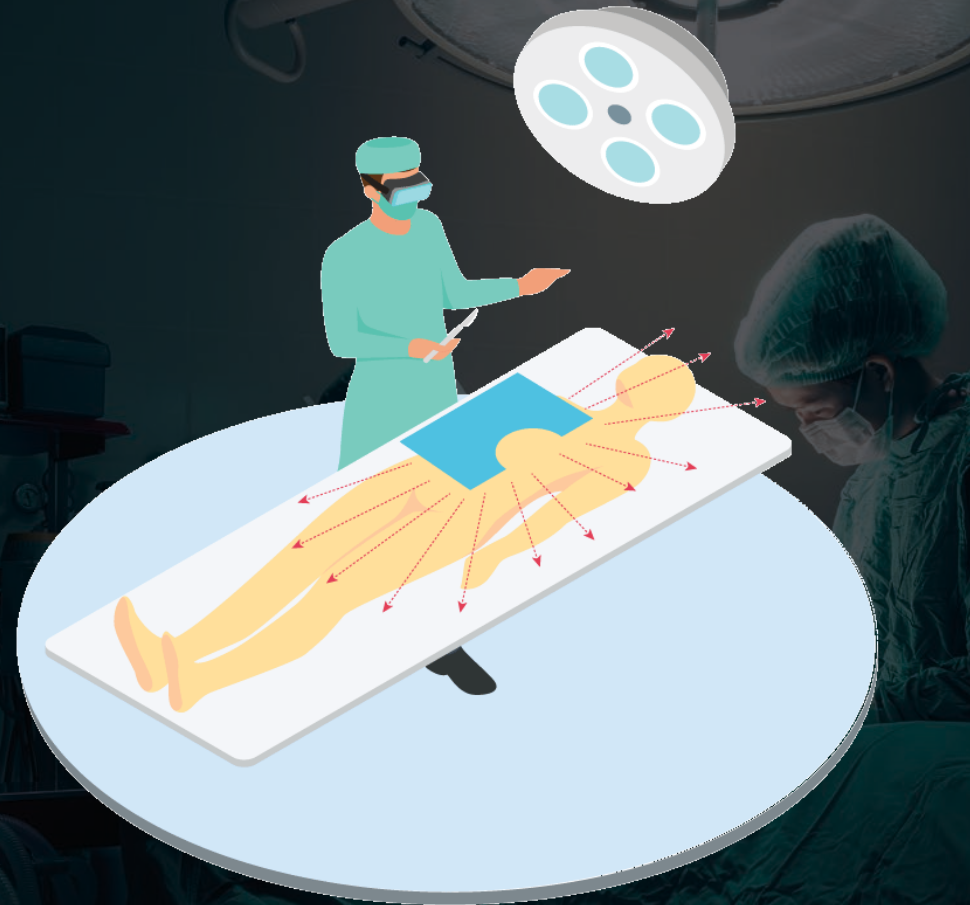


BACK



NOTE: Adhesive is located on the back of the drape (seen here). Be sure to place adhesive side down towards patient when applying the drape.

DRAPE POSITIONING



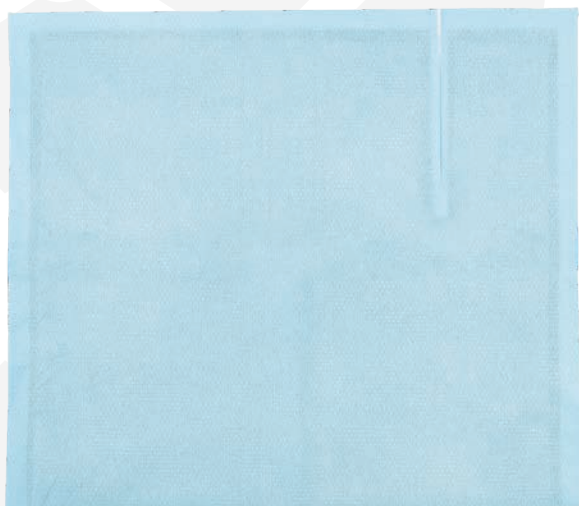
PROCEDURES FOR EP DRAPE (SMALL) WITH SCOOP FENESTRATION

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



**SCATTER
GUARD**

JUGULAR ACCESS/ TIPS 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 (LE)	Attenuation at 90kVp
0.060mm	50%
0.125mm	75%
*0.25mm	90%
0.375mm	95%

*CE applies to 0.25mm LE only.

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



ECO-FRIENDLY



HIGH ABSORBANCY



STERILE



DISPOSABLE



LATEX FREE

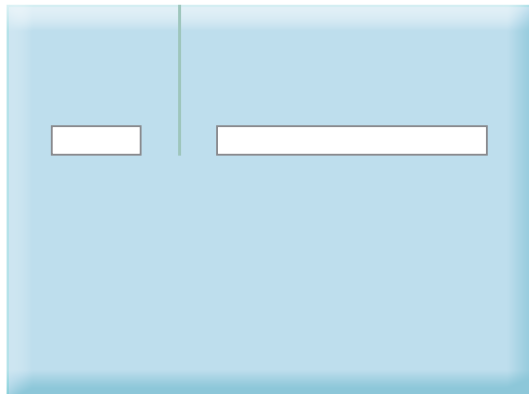


3M ADHESIVE

FRONT

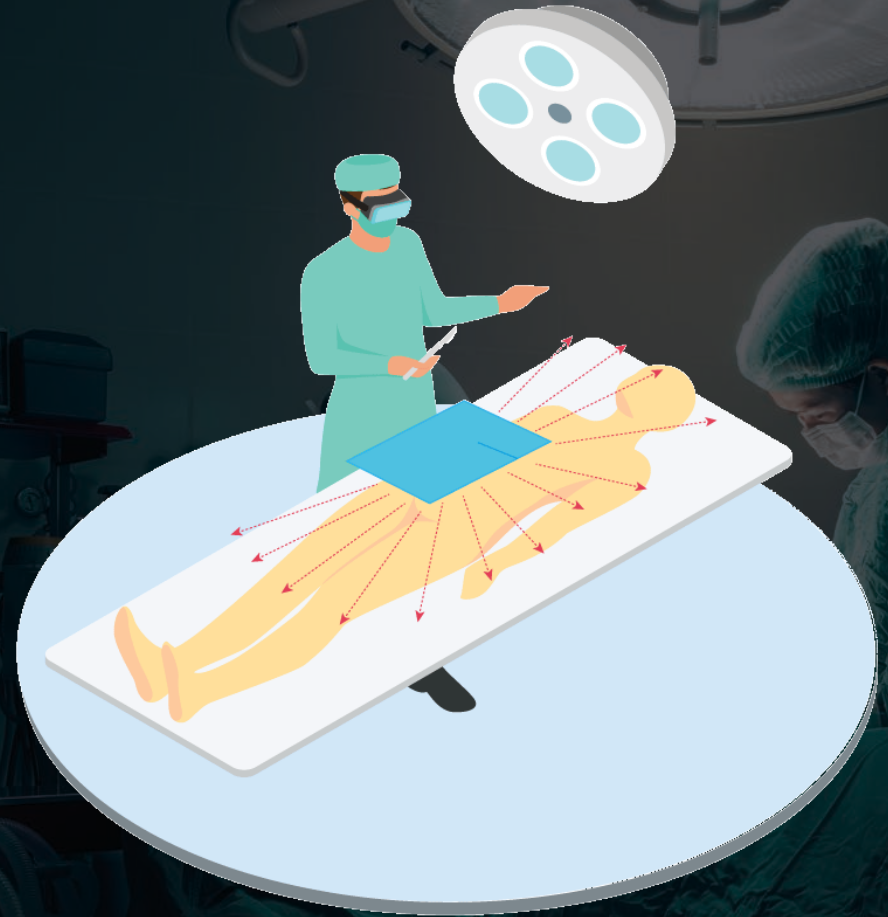


BACK



NOTE: Adhesive is located on the back of the drape (seen here). Be sure to place adhesive side down towards patient when applying the drape.

DRAPE POSITIONING



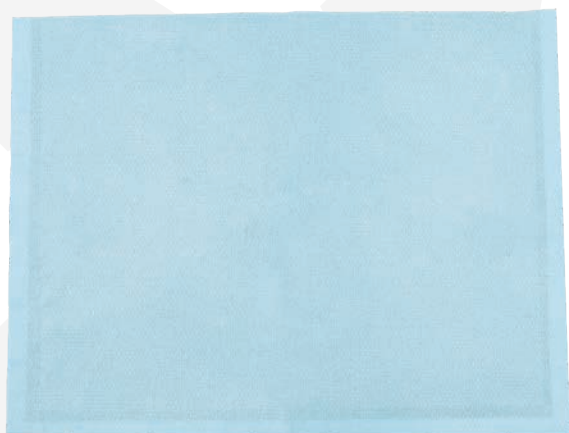
PROCEDURES FOR JUGULAR ACCESS DRAPE

Transjugular intrahepatic portosystemic shunt



**SCATTER
GUARD**

MULTIPURPOSE 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 (LE)	Attenuation at 90kVp
0.060mm	50%
0.125mm	75%
*0.25mm	90%
0.375mm	95%

*CE applies to 0.25mm LE only.

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



ECO-FRIENDLY



HIGH ABSORBANCY



STERILE



DISPOSABLE



LATEX FREE

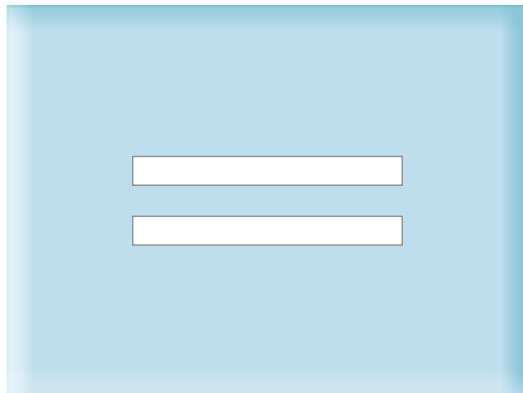


3M ADHESIVE

FRONT

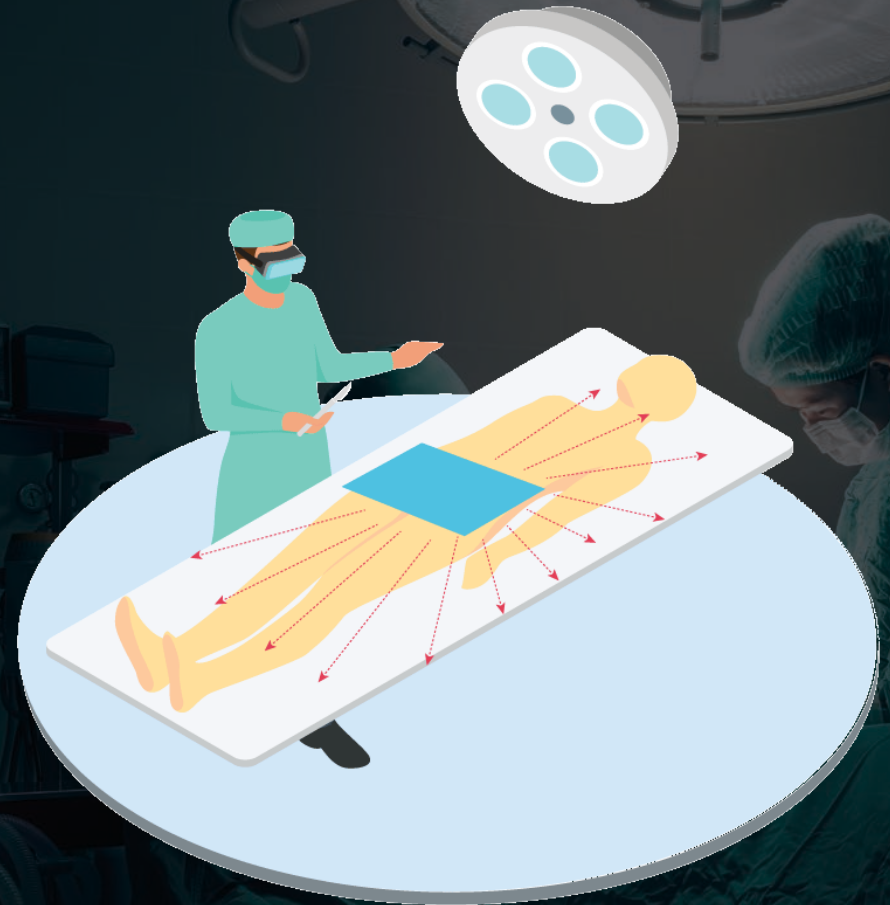


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NOTE: Adhesive is located on the back of the drape (seen here). Be sure to place adhesive side down towards patient when applying the drape.

DRAPE POSITIONING



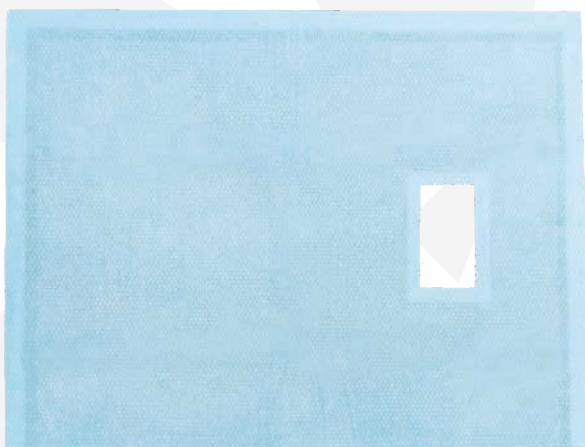
PROCEDURES FOR MULTIPURPOSE DRAPE

Needle Biopsy or Puncture Procedures



**SCATTER
GUARD**

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

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 (LE)	Attenuation at 90kVp
0.060mm	50%
0.125mm	75%
*0.25mm	90%
0.375mm	95%

*CE applies to 0.25mm LE only.



ECO-FRIENDLY



HIGH ABSORBANCY



STERILE



DISPOSABLE

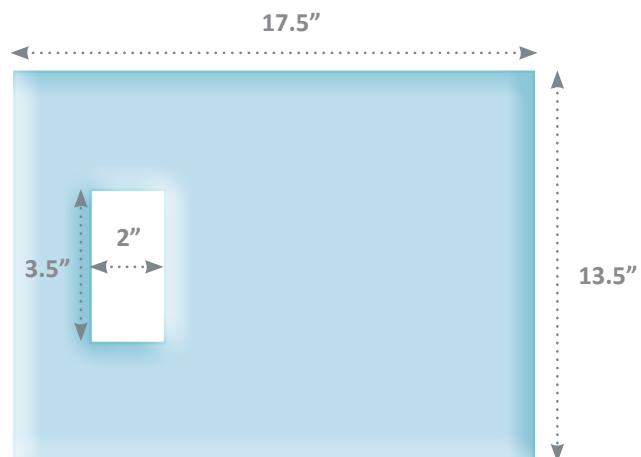


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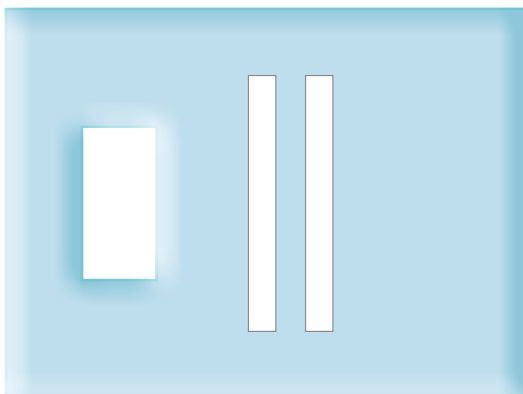


3M ADHESIVE

FRONT

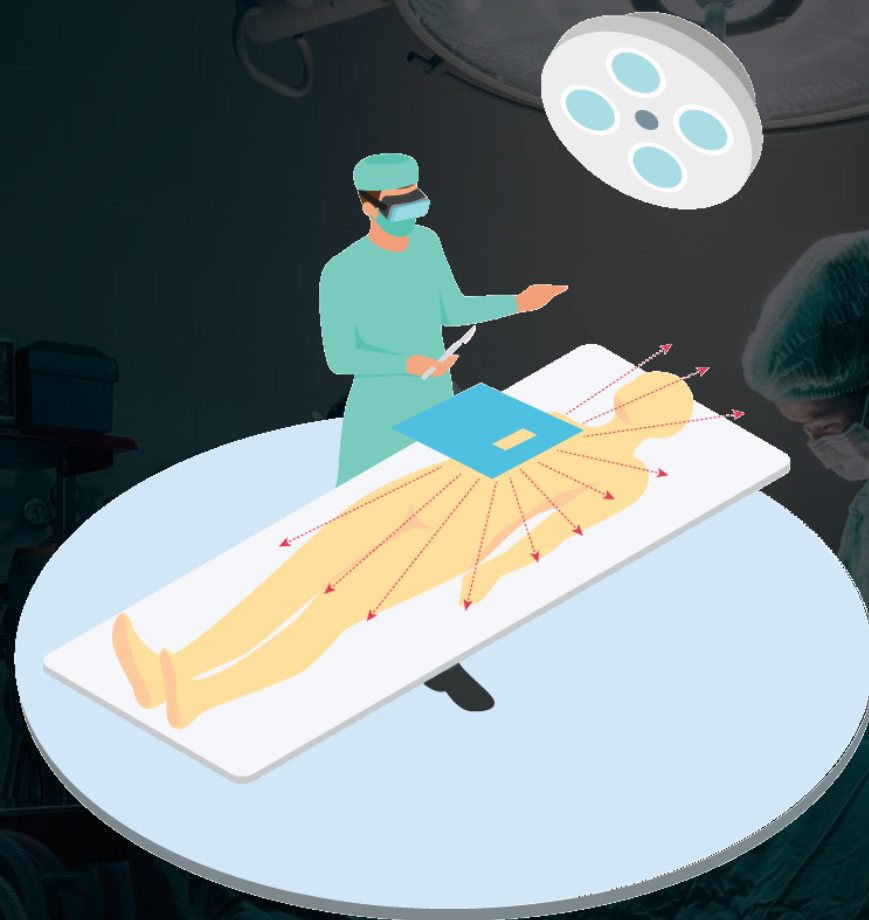


BACK



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DRAPE POSITIONING



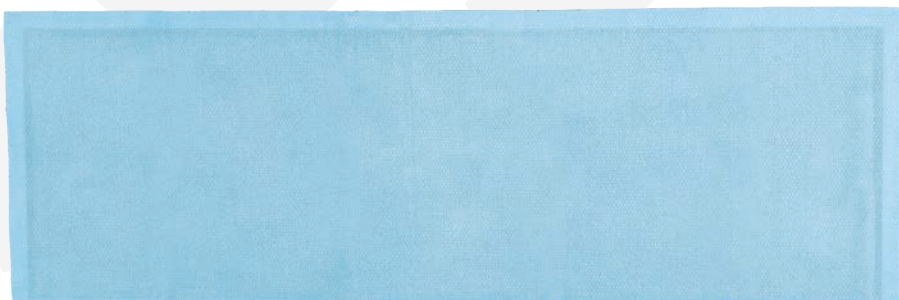
PROCEDURES FOR MULTIPURPOSE DRAPE WITH FENESTRATION

Needle Biopsy or Puncture Procedures



**SCATTER
GUARD**

PERIPHERAL 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 (LE)	Attenuation at 90kVp
0.060mm	50%
0.125mm	75%
*0.25mm	90%
0.375mm	95%

*CE applies to 0.25mm LE only.

Model #	SG - PPD
Dimensions	12" x 35"
Fenestration	None
Attenuation	See protection properties chart
Lead Equivalence	0.125, 0.25, or 0.375mm LE
Core material	Prolite Max
Quantity	10 per box



ECO-FRIENDLY



HIGH ABSORBANCY



STERILE



DISPOSABLE

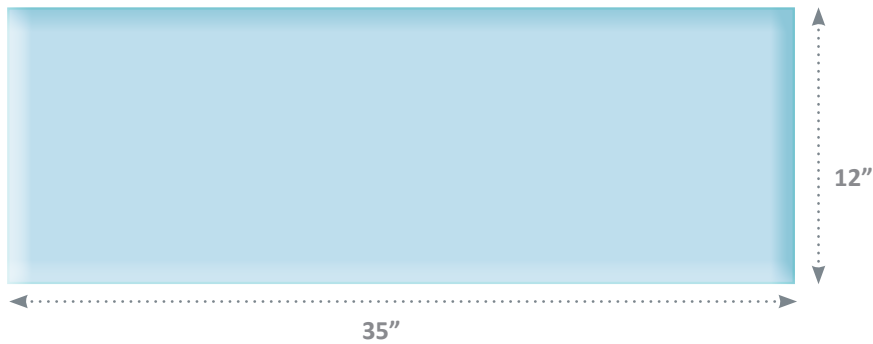


LATEX FREE

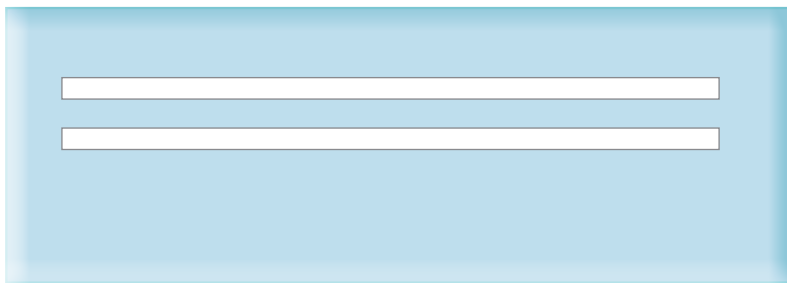


3M ADHESIVE

FRONT



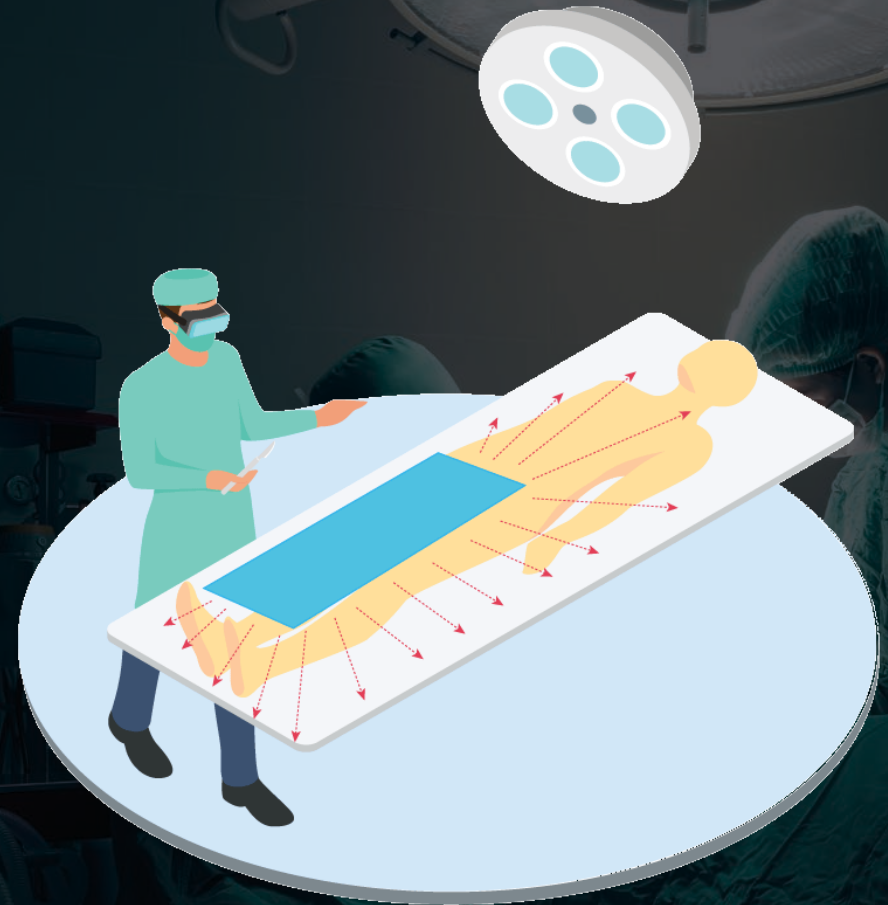
BACK



NOTE: Adhesive is located on the back of the drape (seen here). Be sure to place adhesive side down towards patient when applying the drape.

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DRAPE POSITIONING



PROCEDURES FOR PERIPHERAL DRAPE

Peripheral procedures where access is through
the femoral artery