

SCATTERGUARD

DRAPE CATALOG



PROTECH
MEDICAL



05

Scatterguard patient drapes are a **weightless and disposable form of protection against scatter radiation**. To ensure the best possible quality and protection, Scatterguard products are manufactured in a CLASS 10,000 clean room.





SCATTERGUARD DRAPES

Protech is proud to offer a line of disposable products that protect doctors and technicians alike from the harmful effects of exposure to radiation while reducing the occurrence of biological contamination. ScatterGuard is comprised of disposable Smart Caps (head protection), and disposable ScatterGuard Drapes.



SCATTER RADIATION

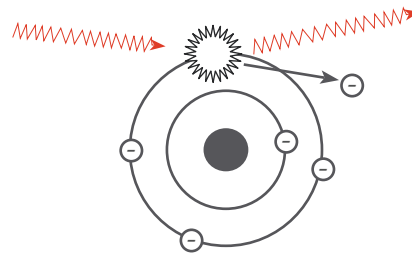
VERSUS DIRECT BEAM RADIATION

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



VERSUS

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

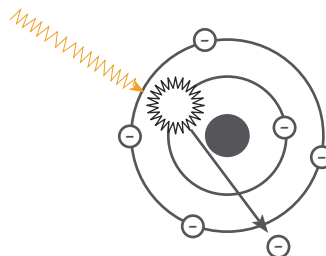


Image intensifiers have enabled surgeons to become technically more proficient and decrease the morbidity of the patient by minimizing area of operative field and decreasing operative time. Some over-use fluoroscopy, forgetting the principles of radiation protection, while others under-use it due to 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).

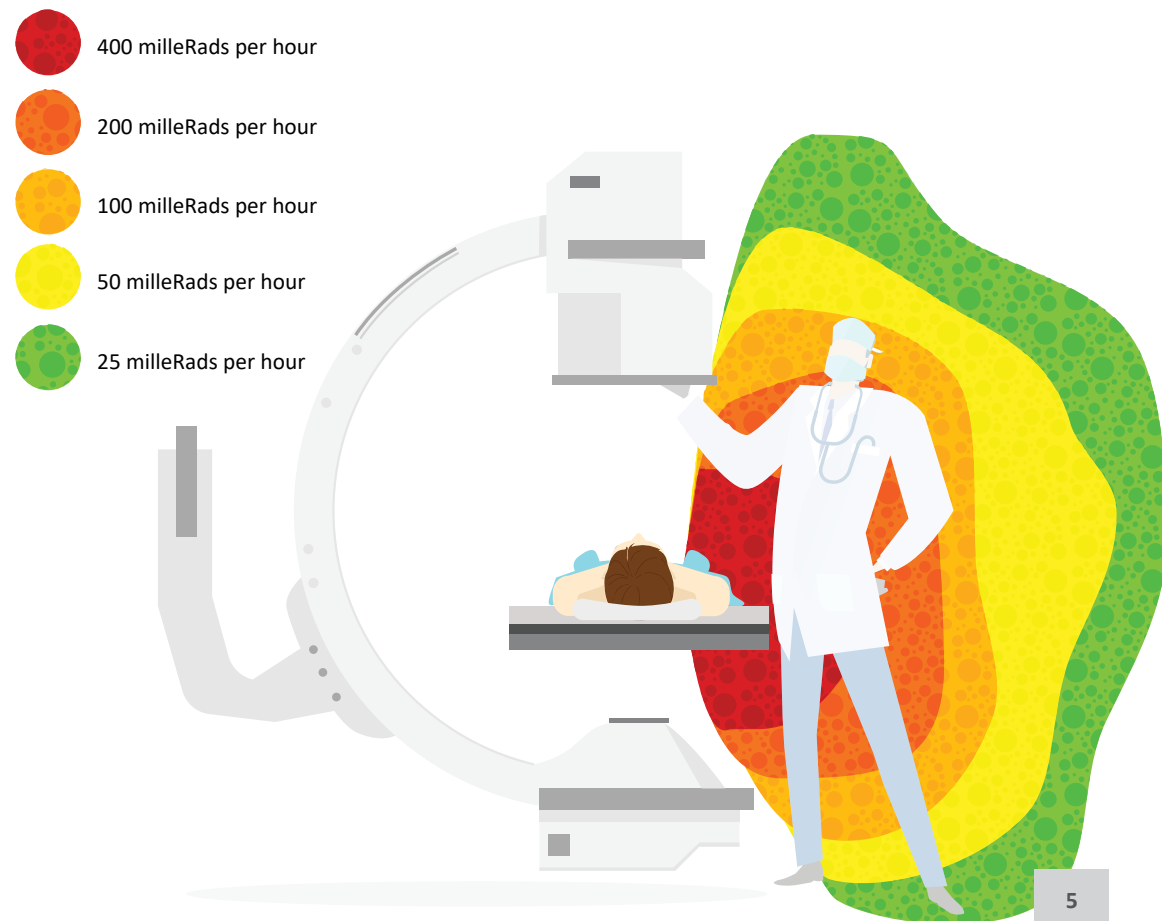
[1] – International Atomic Energy Agency

[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]





PATIENT DRAPES

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, powder-free drapes 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 surrounded by a high-absorbent material with a laminated/sealed plastic inner layer. All Scatterguard drape models are sold by the box (10 per box).

***CERTIFIED TO ASTM 2547-18 AND
IEC 61331-1:2014 STANDARDS [CE 2895]**

ABSORBANCY

| Fabric Type | Absorbant Rate | Weight | Absorbant Capacity |
|-------------|----------------|----------|--------------------|
| Corzorb | 6.8 sec | 62.7 gsm | 650% |
| Airtex | 5.4 sec | 132 gsm | 890% |

PROTECTION PROPERTIES

| Lead Equivalence (LE) | Attenuation at 80kVp | Attenuation at 100kVp |
|-----------------------|----------------------|-----------------------|
| 0.125mm | 77.3% | 68.9% |
| *0.25mm | 91.9% | 85.6% |
| 0.375mm | 96.4% | 92.1% |



ECO-FRIENDLY



LATEX FREE



STERILE (GAMMA)



DISPOSABLE



SINGLE USE

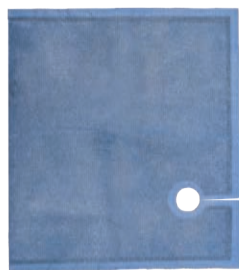


3M ADHESIVE

| # | Model | Description | Fenestration | Dimensions | Procedures |
|---|----------------|--------------------------|---------------------|---------------|---|
| 1 | SG-AD-125/250 | Angiography Drape | 2" Circle | 14.5" x 16.5" | Angiography, Coronary Catheterization, UFE, Pelvic Surgery and TACE |
| 2 | SG-BSD-250 | Biliary Split Drape | 5" Slit | 14.5" x 16.5" | Transjugular intrahepatic portosystematic shunt (TIPS) |
| 3 | SG-DSD-250 | Dialysis Drape | 4.5" x 9" Rectangle | 32" x 50" | Dialysis access and dec clotting, Fistulagram |
| 4 | SG-EPD-125/250 | EP Left Subclavian Drape | 3.25" x 2.25" Scoop | 13.5" x 17.5" | Bi-ventricular pacemaker implants, Bi-ventricular pacing and ICS procedures |

1

Angiography Drape



2

Biliary Split Drape



3

Dialysis Drape



4

EP Left Subclavian Drape



| # | Model | Description | Fenestration | Dimensions | Procedures |
|---|--------------------|----------------------------|------------------|-----------------|---|
| 5 | SG-EPDC-LG-250 | EP Drape - Large | 5.75" x 3" Scoop | 16" x 16" | Bi-ventricular pacemaker implants, Bi-ventricular pacing and ICS procedures |
| 6 | SG-EPDC-SM-250 | EP Drape - Small | 5.75" x 3" Scoop | 11" x 16" | Bi-ventricular pacemaker implants, Bi-ventricular pacing and ICS procedures |
| 7 | SG-JUG-125 | Jugular Access/ TIPS Drape | 5" Slit | 13.5" x 17.5" | Transjugular intraheptic portosystematic shunt (TIPS) |
| 8 | SG-MPD-125/250/375 | Multipurpose Drape | None | 13.5 x" x 17.5" | Needle Biopsy or Puncture procedures |

5

EP Drape - Large



6

EP Drape - Small



7

Jugular Access/TIPS Drape



8

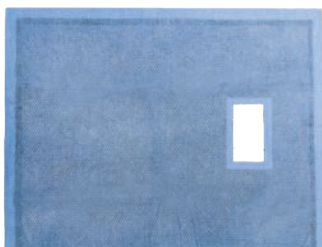
Multipurpose Drape



| # | Model | Description | Fenestration | Dimensions | Procedures |
|----|---------------------|--------------------------------------|---------------------|-------------------|--|
| 9 | SG-MPDF-125/250/375 | Multipurpose Drape with Fenestration | 3.5" x 2" Rectangle | 13.5" x 17.5" | Needle Biopsy or Puncture procedures |
| 10 | SG-PPD-125/250 | Peripheral Drape | None | 11" x 34" | Peripheral procedures where access is through the femoral artery |
| 11 | SG-DCAP-125/250/375 | Disposable Smart Cap | None | One size fits all | Any procedure involving fluoroscopy |

9

Multipurpose Drape with Fenestration



10

Peripheral Drape



11

Disposable Smart Cap

