

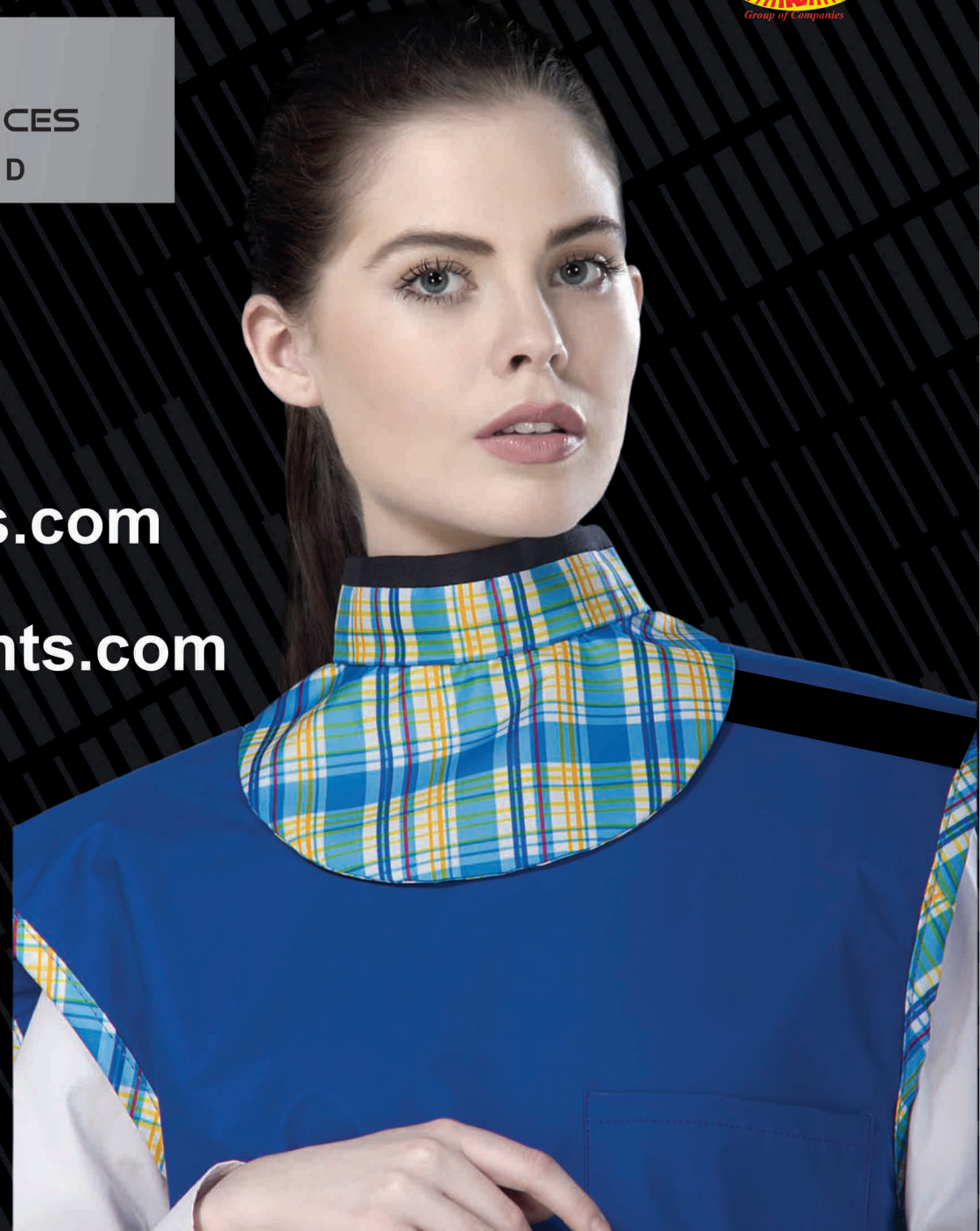
RADIATION
PROTECTION
PRODUCTS



KIRAN TECHNO SERVICES
PRIVATE LIMITED

www.kiransurgicalsystems.com

www.kiranmedicareequipments.com



THE KIRAN PROMISE



PROTECTION FOR THE PEOPLE WHO PROTECT LIFE

With over 50 years of experience globally in a diverse range of industries including healthcare, we understand your role as a medical professional along with the risks you take to fulfill it. We know that you deserve the greatest level of protection while enabling efficiency, comfort, and style.

Kiran is your destination for radiation protection products that represent a synergy of technological innovation, meaningful research and dedicated care. Our products meet and exceed the highest safety standards of the industry.

We design protective apparel used in interventional radiology and cardiology, CT labs, X-ray assisted surgery and general radiology. Kiran offers a complete range of products that are designed with both function and style in mind. Quality, weight, ergonomics and aesthetics form the core attributes of every Kiran product.



KIRAN EQUALS SAFETY



When you use Kiran products, you are guaranteed optimum protection against scattered radiation.

Kiran offers apparel that provides various levels of protection depending on the functional requirements.

The lead equivalence in the apparel corresponds to the level of radiation protection as described below.

LEAD EQUIVALENCE OF...	RADIATION PROTECTION UPTO...
0.50 mm Pb	99%
0.35 mm Pb	98%
0.25 mm Pb	96%

The lead equivalence is determined as per the IEC 61331-1, by the inverse broad beam geometry method for the specified range of tube voltages from 50 kV to 150 kV.

All apparel are available in popular lead equivalencies as well as in customized Pb thickness on both the front and the back.



THE X± FACTOR

Our radiation protective sheetings are manufactured for perfect uniformity, suppleness and durability.



LiteGreen™

This green material replaces all the lead with a mixture of bismuth, tungsten and antimony. It meets the European standards for safe disposal. LiteGreen™ also matches MaxLite™ in its lightweight qualities making it the material of choice for users.



MaxLite™

MaxLite™ uses the substitution technique over a large part of lead in protective sheeting to result in a product that is 20-30% lighter than most leaded materials and at least 10% lighter than all other available materials in the market. Apparel made with MaxLite™ are best used in x-ray assisted surgery or in Cath Labs where the user wears the apparel for long hours.



LiteLead™

LiteLead™ is the lightest fully leaded material in the market. It is formulated using fine particles of lead rather than lead oxide, which along with the advanced binding system helps in lowering its weight without compromising its lead equivalence.



01 SKIRT & VEST

ULTIMATE PROTECTION FOR USER



Optixx™

- Significant overlap on the front opening of the vest as well as the vest overlap of the skirt (covering the waist area) also provides added protection
- Optimised weight distribution to reduce load on back and shoulders
- Full overlap on skirt circumference for added lower body protection



Maxx™

- Complete overlap on the front opening as well as the vest as well as the vest overlap of the skirt for added protection
- Optimised weight distribution to reduce load on the back and shoulders
- Full overlap on skirt circumference for added lower body protection



02 DOUBLE-SIDED APRON

ALL ROUND PROTECTION SOLUTION



Optixx™

- Significant overlap in front for added protection
- Velcro closure for a perfect fit
- Flexible belt to release load on back and shoulder



Maxx™

- Full overlap in front for total protection
- Flexible belt to release load on back and shoulder



- Smart side closure to prevent accidental exposure



03 COAT APRON

THE GOLD STANDARD FOR X-RAY ROOMS



- Complete frontal protection
- Smart and flexible insert with Velcro closure
- Built-in shoulder relief pads



04 SURGICAL APRON

MAKING SURGERIES EASIER



- Complete frontal protection
- Easy drop off from under a surgeon's scrubs when removing
- Optimised weight distribution



Aprons are available in S/M/L/XL and custom sizes



05 CUSTOMISATION

IDENTITY & EXPRESSION PRINTS

We offer to print names and images, made possible by advances in print technology. We can print names of doctors or of a hospital on the apron pocket. We maintain a vast design bank of prints, which can be added, to pockets or on the front or back of aprons. You can now express yourself in your own unique way.



06 FABRICS AND COLORS

VIBRANT COLORS THAT LIFT MOODS

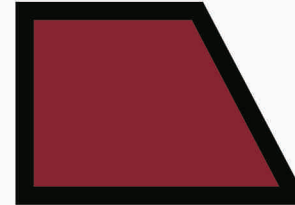
Introducing Kiran, our safest radiation protection fabric yet. Invented to resist contaminants and woven with cutting edge technology, this fabric makes our apparel some of the safest and most reliable in the world. Better still, it is soft on the skin and doesn't wrinkle easily.



FUSCHIA
Joyful



FOREST GREEN
Natural



CHERRY
Warm



AQUA GREEN
Nurturing



MOUNTAIN GREY
Stable



ROYAL BLUE
Energetic



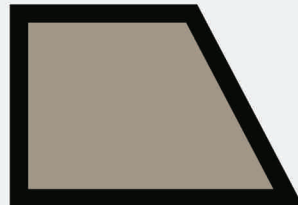
NAVY BLUE
Classic



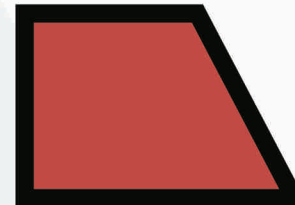
PURPLE
Inspiring



LEMON
Cheerful



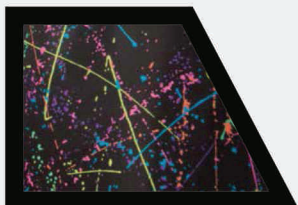
CAMEL
Neutral



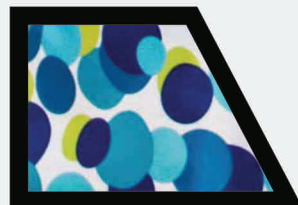
RED
Dynamic



CHOCOLATE
Reliable



RETRO
Fun



HOOP
Upbeat



TARTAN
Kind

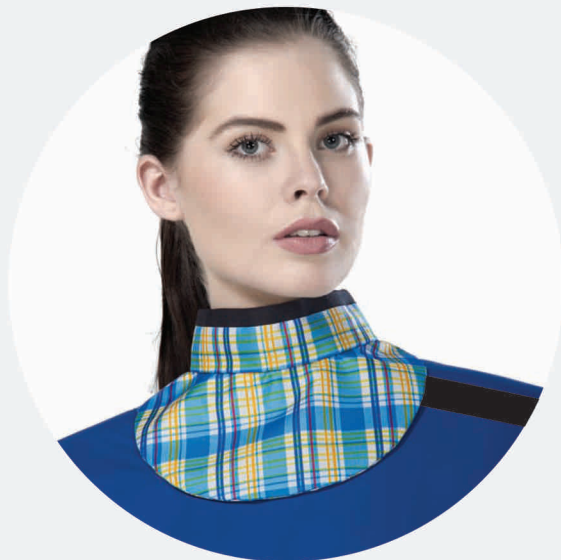


BAMBINO
Playful

07 THYROID SHIELDS & COLLARS

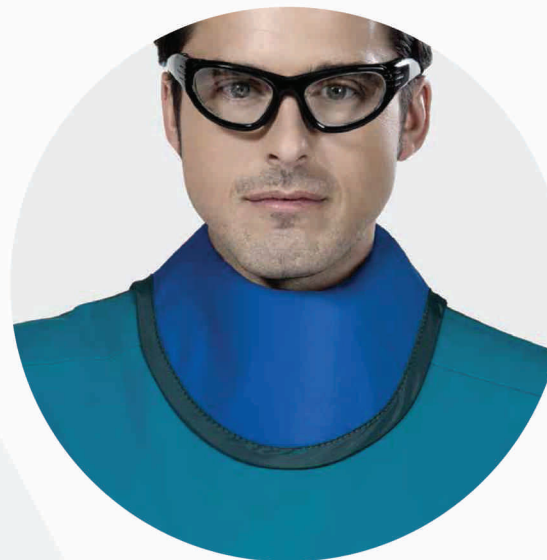
THE SENSITIVE GLAND PROTECTION

Our thyroid shields and collars are designed to be one size fits all. All our thyroid shields can be affixed to the aprons.



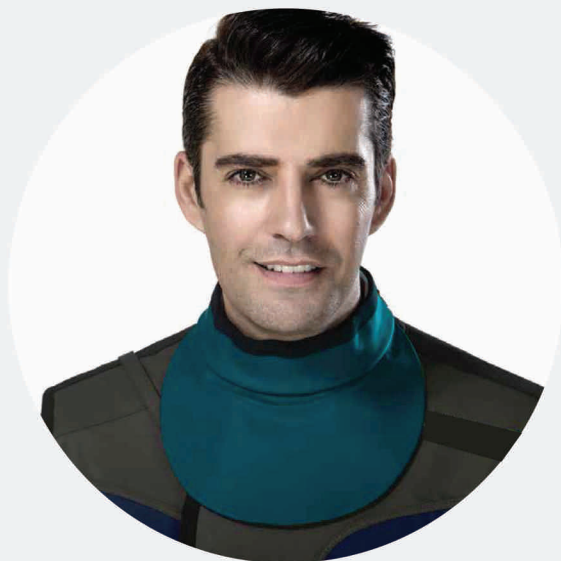
BALANCE

Unique design to protect the thyroid & sternum



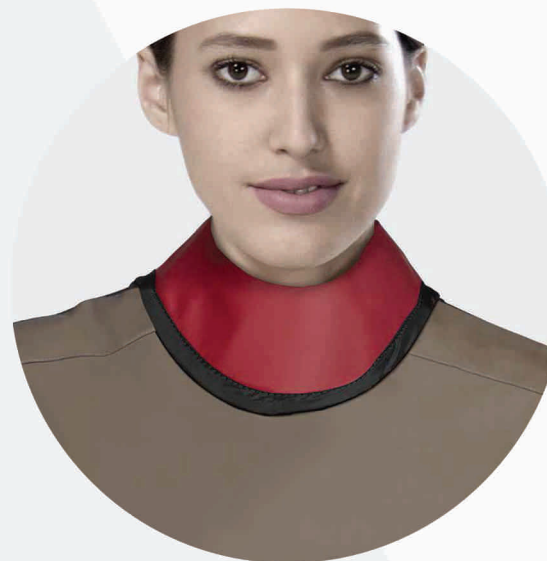
ELEGANCE

Deep design to fit comfortably on the neck



UNIVERSAL

An all time favourite



UNISON

For a snug fit enabling total protection

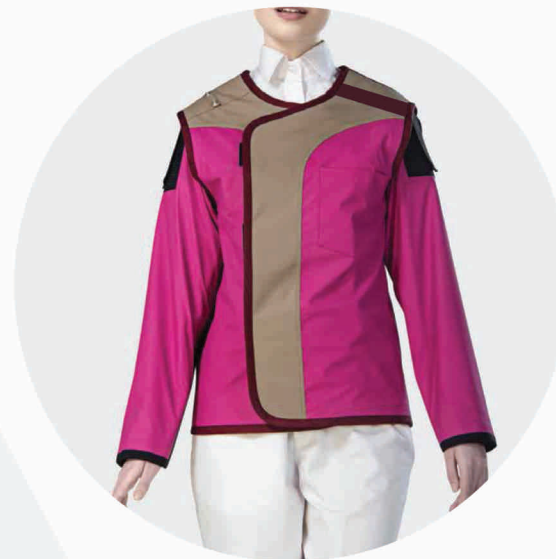
08 MORE SHIELDS

PROTECTION FOR OTHER BODY PARTS



HEAD PROTECTION

For superlative protection against hair fall



SLEEVES

Sleeves save the arms from scattered radiation especially during procedures



MITTENS

Protect hands during procedures around scattered x-rays



GONAD & OVARIAN SHIELDS

Gonad Shields protects male reproductive organ
Lead equivalence: 1.0 mm Pb

Ovarian Shields protects female reproductive organ
Lead equivalence: 1.0 mm Pb

09 LOWER BODY PROTECTION

PROTECT THE PATIENT



PATIENT APRON
Protects the lower body



PATIENT SHIELD
Protects vulnerable areas

10 DENTAL APRON

MAKING DENTAL X-RAYS SAFE



PANORAMIC APRON
Perfect for use with the Panoramic X-ray machine



DENTAL APRON
Total protection for the patient in dentist's chair

11 CHILDREN' S APRONS

TOTAL PROTECTION IN CHILD-FRIENDLY DESIGNS

Available in a variety of popular and custom sizes, designs, colors and patterns.



13 HAND PROTECTION

FOR HANDS IN THE ACTIVE BEAM FIELD

Each disposable glove is manufactured in our bacteria-free, state of the art dipping facility.

ALL OUR GLOVES ARE GAMMA STERILIZED AND FEATURE:

- A lead-free proprietary hypoallergenic formulation
- Maximum contact and tactile sensitivity
- Textured surface for perfect grip
- 100% sterile and powder-free
- Elimination of finger fatigue with a unique design
- Ease of wear and removal with rolled and beaded cuff
- Made in two thicknesses (as shown below)



RADIATION ATTENUATION DATA

Attenuation measurement at broad beam according to IEC 61331-1/ASTM-2547-06

RADIATION BEAM ENERGY LEVEL	SKIN DOSE REDUCTION	
	PRIME	SHEER
60 kV	64%	43%
80 kV	54%	37%
100 kV	48%	31%
125 kV	42%	23%



14 EYE PROTECTION

The UniRay range of eyewear offers light comfortable frames with 0.75 mm Pb that absorb at least 99% scattered radiation.



FRONT

Globally popular model provides for perfect frontal protection



MAXX

A sporty model with padding on temples & bridge of the nose



SPORTY

The wrap-around style of these frames help protect the complete eye, with no danger of lateral radiation



FRONT & SIDE

Protects the user from frontal as well as lateral radiation



FIT OVER

A universal solution to fit over the user's eyewear with complete clarity and protection

15 CT SHIELD

Managing radiation doses during CT scans is key to avoid potential cancer risks and radiation damage to the sensitive tissues of the breast, thyroid gland and eyes. Our CT shields substantially reduce radiation damage and cancer risks to the most sensitive regions of a patient.



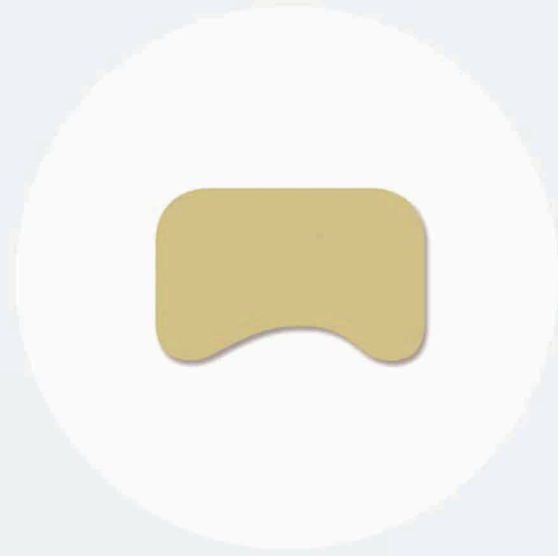
EYE SHIELD

Reduces over 60% radiation to the eye from the CT scanner



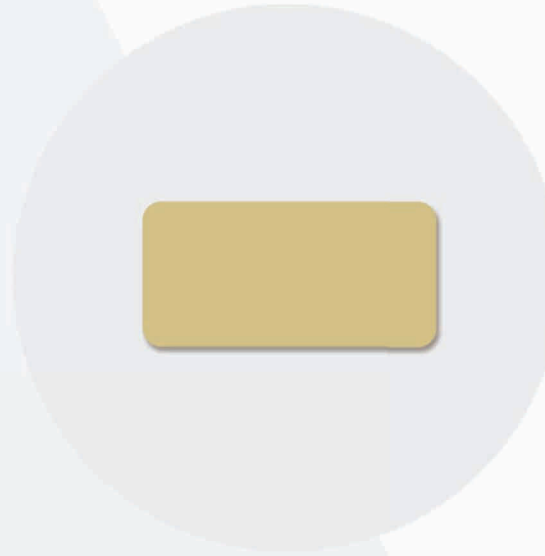
BREAST SHIELD

Protective as well as stylish, the wraparound frames of these eyeglasses help protect the complete eye, with no danger of lateral radiation. The molded frame fits the nose snugly



THYROID SHIELD

Provides over 65% protection to the sensitive thyroid gland and prevents tissue damage



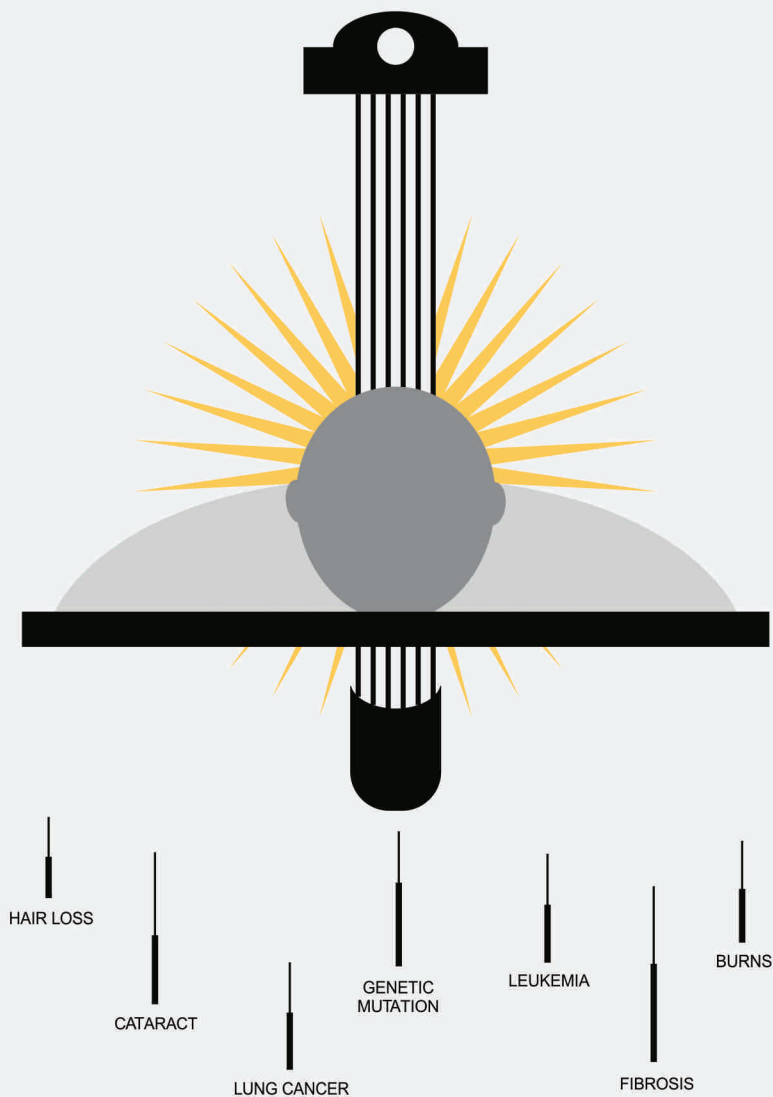
PEDIATRIC SHIELD

Protects children who are more sensitive to radiation than adults

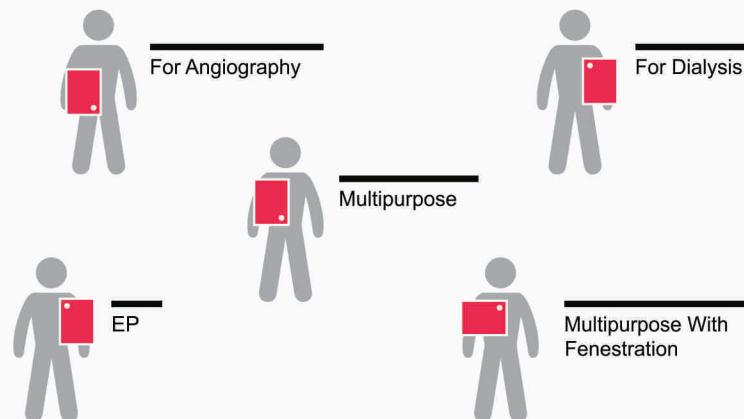
16 RAD BLOCK

CONTINUOUS X-RAY RADIATION EXPOSURE EVENTUALLY EFFECTS THE PHYSICIAN

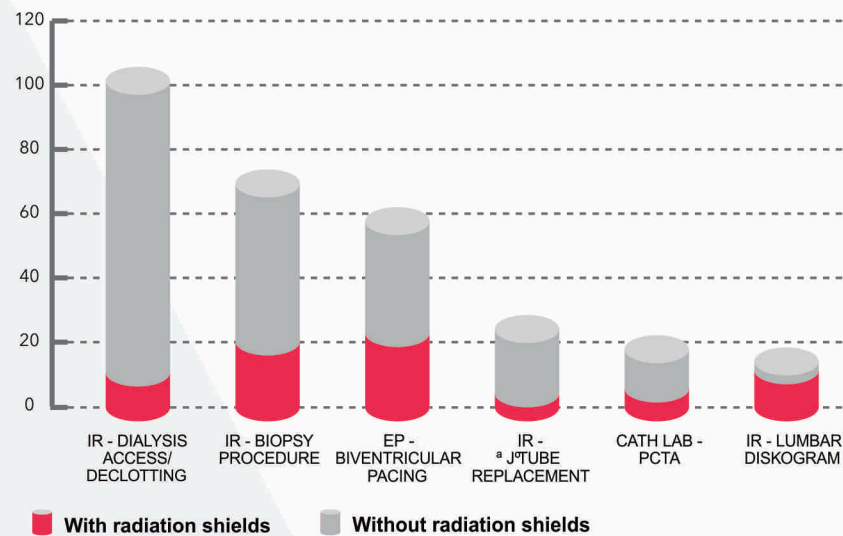
Managing occupational exposure to scattered radiation during surgical procedures, Our procedure specific Drapes/Red Block protects the physician from radiation exposure.



THE RAD SHIELD SOLUTIONS



TYPICAL SCATTER RADIATION EXPOSURE LEVELS



RADIATION ATTENUATION DATA

Attenuation measurement at broad beam according to EN 1331-1 (IEC 61331-1/ASTM-2547-06)

AT 90 Kv RADIATION BEAM ENERGY LEVEL

	LOW	MEDIUM	HIGH
ATTENUATION	75.3%	90.8%	95.3%

17 STORAGE SYSTEMS

COMPACT AND EFFICIENT

Our perfectly crafted range of storage system

MOBILE HANGERS & GLOVE HOLDERS

- Smart stainless steel system with brakes
 - Detachable hooks, glove and shield storage
 - 5 or 10 apron models

MOUNTED WALL RACKS

- Stainless steel swivel hangers for ease of use
 - Space saver racks and several models

AVAILABLE MODELS

- Wall racks with one, two, three, and five hangers
- Glove holders and hooks are available for fixing on the mobile system



2 HANGER WALL SYSTEM



3 HANGER WALL SYSTEM



ENERGY optimum
Exposure Mutation
LABS patient
ENES products ISC
est Surgical sensitive
shields
ality **SAFETY** EX
Mutation

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Gujarat : 308/4, GIDC Estate, Makarpura Industrial Estate, Baroda – 390 010,

Andhra Pradesh : No. 6-5-351/5, Astal Heights, Road No. 1, Banjara Hills, Hyderabad – 500 034

Tamil Nadu : No.33-B4, Sidco Industrial Estate Phase - II, Sundarapuram, Coimbatore - 641 021

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