Introducing the
EGGNEST
by Egg Medical

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91% Overall Radiation Reduction

Protection for the entire Cath Lab Team

EGG
MEDICAL

Radiation Exposure Causes Health Risk for the Cath Lab Team

Longer more complex procedures, lead to more radiation exposure for Cath Lab Teams

• The number of structural heart, CTO's, Multi-Vessel, Peripheral and Endovascular procedures are increasing and require longer exposure to ionizing radiation than PCI alone.

Cath lab team scatter radiation exposure is significant and causes long term health risk. Mounting evidence shows a link to a series of significant health effects:

HEALTH EFFECT	ODDS RATIO (95% CI)
CANCER	3.0 (1.5 - 6.2)
CATARACTS	6.3 (1.5 - 27.6)
HYPERTENSION	1.5 (0.9 - 2.6)
SKIN LESSIONS	2.8 (1.3 - 6.1)

The Odds ratio is the multiple or the normal occurrence of each condition in healthcare personnel not working in x-rays labs. Reference: Andreassi MG, Piccaluga E, Guagliumi G, et al. Occupational health risks in cardiac catheterization laboratory workers. Circ Cardiovasc Interv. 2016,9:003273.

Interventional Physicians Have the Highest Radiation Exposure of All Professions

INTERVENTIONAL PHYSICIANS

3 MSV PER YEAR

NUCLEAR POWER PLANT WORKERS

1.23 MSV PER YEAR

OCCUPATIONAL RISK FROM SCATTER RADIATION

1 IN 25 HIGH VOLUME OPERATORS WILL ACQUIRE A RADIATION CAUSED CANCER

1 IN 50 HIGH VOLUME OPERATORS WILL DIE AS A RESULT OF RADIATION ACQUIRED DISEASE

THE POSITIONS NEAR THE HEAD AND CHEST RECEIVE THE MOST SCATTER RADIATION

* International Atomic Energy Agency: Occup Med (Lond). 2010;60(6):464-9. Zakeri F, Hirobe T, Akbari Noghabi K. Biological effects of low-dose ionizing radiation exposure on interventional cardiologists.

Learn more about how you can provide protection for the entire Cath Lab Team:

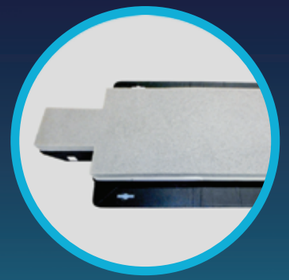
www.eggmedical.com (612) 916-6616 info@eggmedical.com

Breakthrough Personal Protection Made Simple

The EGGNEST™ is a comprehensive, scatter radiation protection system fully integrated into the workflow of the modern Cath Lab.

It provides protection for the entire medical team regardless of location, dramatically reducing radiation exposure.

Carbon Fiber Platform with Internal Shielding Replaces Patient Mattress On X-ray Table



Built-in Railing System To Support Radiation Protection Components

Quad Layer Memory Foam With Support For Chest Compressions

Clear Spot Shield provides additional protection near the access site.

Carbon fiber “Flip Shields” are adjustable and conform to patients’ body to provide protection above the table.

Split mattress to allow use of other devices.

Rotating arm board for Radial procedures.

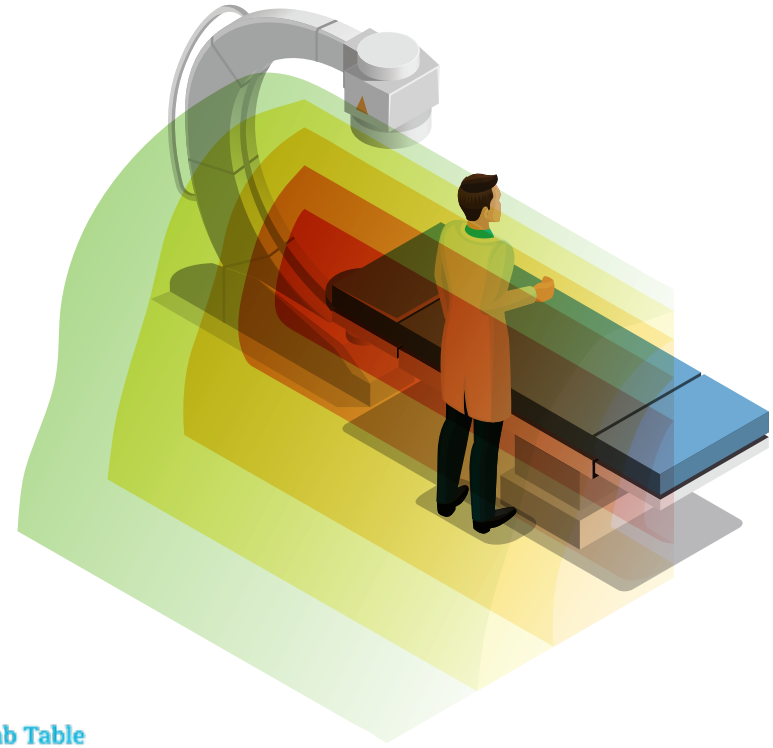
“Flex Shield” Radiation Protection System provides comprehensive protection below the table and at the head of the table.

Moves, bends and flexes to allow full X-ray gantry motion.

Compromising on Radiation Protection is not an Option

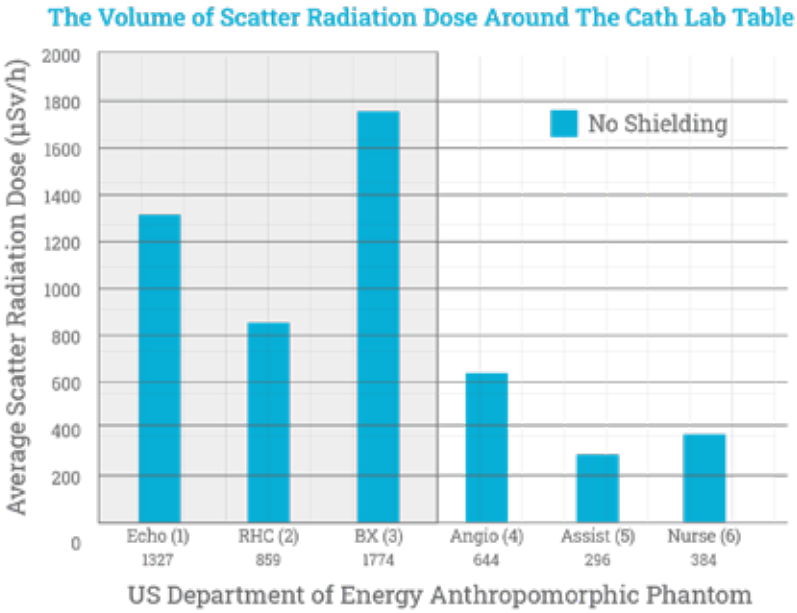
There has not been a radiation protection approach that protects the entire cath lab team.

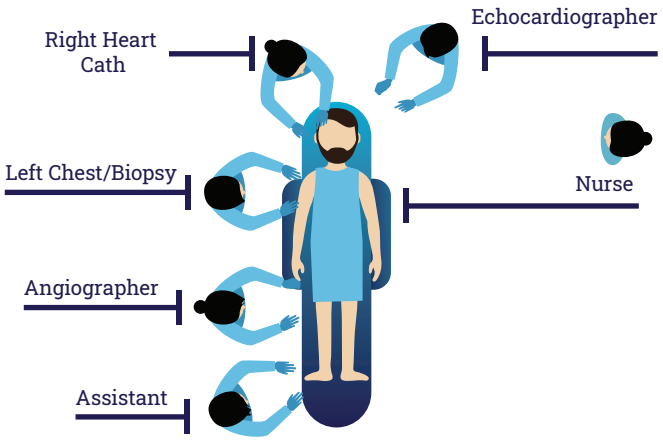
Any radiation protection solution needs to block scatter radiation below the table, at the head and side.



70%

Of Scatter Radiation comes from below the table





- Protection needs to be developed to account for additional staff locations around the table.

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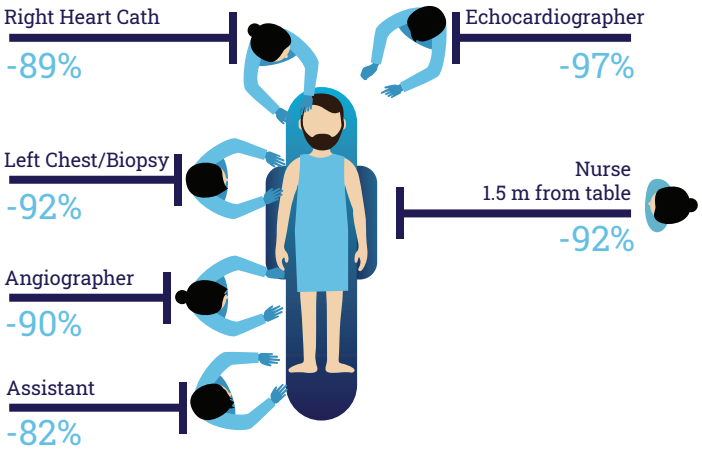
91% Overall Radiation Reduction vs. Standard Shielding

Average Scatter X-Ray Dose Reduction with the EGGNEST™



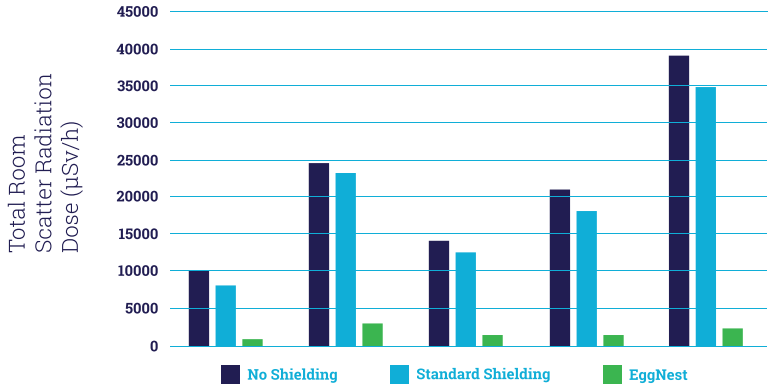
This illustration shows scatter radiation measurement positions from typical positions occupied by medical staff during cath lab procedures.

Measurements were taken from 20-200 cm above the floor, in 20 cm increments for each position.

EGGNEST™ vs. Standard Shielding

- Average scatter radiation was measured in 5 common X-ray views.
- 6 positions around the table with no shielding, standard shielding and Eggnest™ shielding.
- Average scatter radiation was measured from 20 to 200cm at each position.

* A ceiling-mounted upper shield and a table side rail-mounted lower shield.



Total Room Scatter Radiation Dose (µSv/h)	PA 882	RAO 30 Caud20	RAO 30 Cran30	LAO 40 Cran30	LAO 40 Caud30
No shielding	10010	24540	13910	20850	38910
Standard Shielding	7910	23230	12330	17960	34870
EggNest™	640	2670	1210	1110	2040

*Average scatter radiation dose for all heights and positions around the table. Wilson R et al: TCT2018

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