

STEMRAD[®] 360^γ

Shielding the Firefighter from Gamma Radiation



Nuclear Weapon
Detonation



Radiological Dispersal
Device



Nuclear Reactor
Incidents



Current solutions protect firefighters from alpha and beta radiation but do nothing to block gamma radiation.



By selectively shielding stem cell rich organs in the pelvic region, StemRad has made protection from gamma radiation possible.



StemRad's 360 Gamma reduces the probability of cancer due to low dose exposures while preventing early mortalities following high dose exposures.



ALARA dictates dose reduction through 'time, distance, shielding'. **StemRad enables shielding to save lives.**



→ "I've been testing StemRad's 360 Gamma, and it's a real game changer. It's easy to wear, it's comfortable to move around in, but most importantly it gives us first responders the ability to save lives in a nuclear event without having to pay with our own"

Los Angeles Firefighter **Brian Lowe**





100% Fire-resistant
100% rust-proof
100% durable



Effective against Cs-137
Effective against
lethal radioisotopes



PPE Compatibility
Compatible with PPE used by
disaster response professionals



Full Mobility
Positioned on the body's
center of gravity



Ergonomic
Designed for optimal support
and maximal comfort



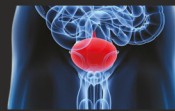
Reduction in Cancer Incidence



Ovarian cancers
35%



Colon cancers
27%



Bladder cancers
22%



Stomach cancers
19%



Leukemias
19%

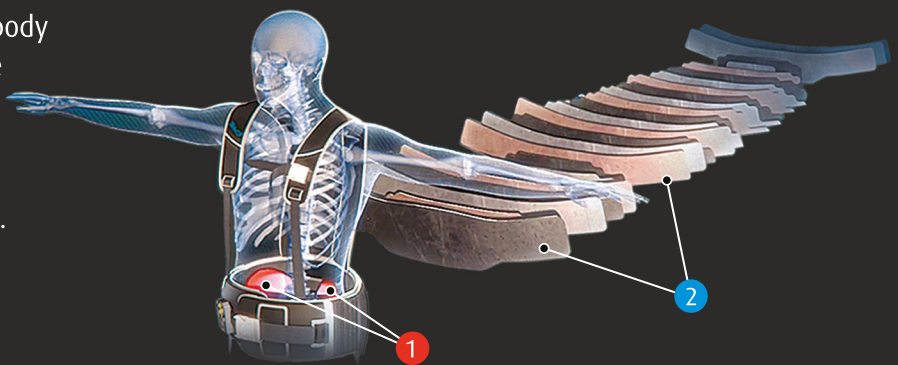
Prevention of Acute Radiation Syndrome**

Dose in Sv	1.5	2	3	4	5	6
% Lethality Unshielded	3.5%	6%	25%	50%	80%	95%
% Lethality Shielded	0%	0%	0%	0%	0%	0%

* survival will vary depending on radionuclide energy

1 By sparing a sufficient volume of the wearer's bone marrow, the 360 Gamma enables the body to perform its crucial life-saving regenerative biological processes post-exposure.

2 Patented internal structure ensures optimal protection while minimizing weight. The 360 Gamma accounts for pelvic bone marrow depth and the natural attenuation properties of human tissue.



"While whole body shielding is inherently heavy, partial body shielding is lighter in weight and selectively shields tissues of increased radiosensitivity (i.e. bone marrow) with substantial amounts of shielding material to protect hematopoietic functions; therefore, potentially preventing the acute health effects of exposure to gamma radiation (i.e. Acute Radiation Syndrome -ARS)." OECD Report on Occupational Radiation Protection in Severe Accident Management

