

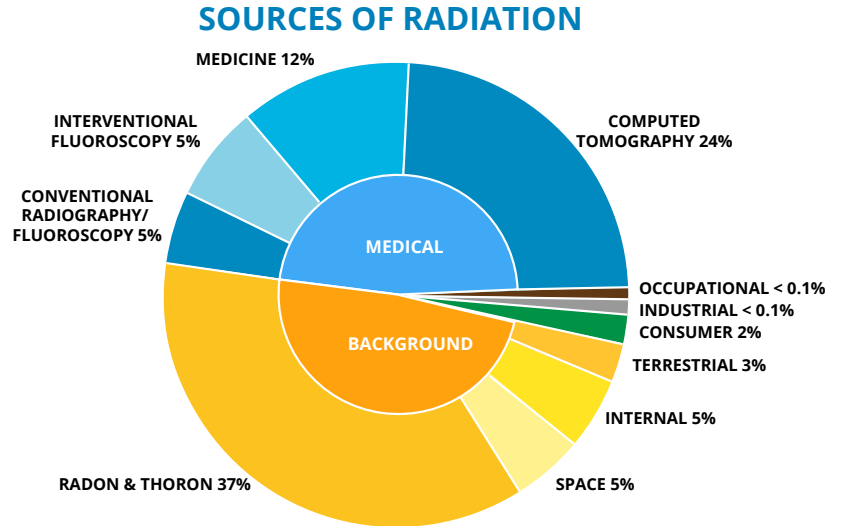
# Frequently Asked Questions About Radiation Safety

## What is radiation?

- Radiation is energy.
- Sunlight, radio waves and microwaves are all forms of radiation.
- Everyone is exposed to radiation in their daily lives from space, the air, the earth, and certain medical procedures.
- Radiation is easy to detect and measure.

## How much radiation exposure is normal?

- The average person in the U.S. is exposed to roughly 620 units (measured in mRem) of radiation each year [source: EPA.gov].
- About half of this radiation comes from natural background sources (space, rocks, the air).
- The other half comes from man-made sources (mostly medical scans).



## Does the SHINE production facility make radiation?

- Yes. In fact, radioactivity is what makes our products useful in medical scans.
- Our radioactive products are injected into patients in very small quantities to help doctors find and cure disease.
- Public radiation exposure from the SHINE production facility is limited to less than 10 mRem per year to someone living 24 hours/day, 7 days per week at the SHINE facility fence-line. This is the same amount of radiation you get from:

### Flying from



**New York City to Los Angeles**

### Getting



**chest X-Ray annually**

### Eating



**bananas every day for a year**

## Is the SHINE production facility safe?

- Yes. Safety is SHINE's number one priority.
- Our process produces hundreds of times less radiation than reactor-based medical isotope production and is driven by an electrically-powered accelerator.
- We invested 4 years of work to demonstrate to the experts at the Nuclear Regulatory Commission that our facility is safe to build.

**LEARN MORE:** [www.SHINEmed.com/Science-of-Radiation](http://www.SHINEmed.com/Science-of-Radiation)

