Estimate your personal annual radiation dose.

We live in radioactive world – humans always have. Radiation is part of our natural environment. We are exposed to radiation from materials in the earth itself, from naturally occurring radon in the air, from outer space, and from inside our own bodies (as a result of the food and water we consume). This radiation is measured in units called millirems (mrems). The average dose per person from all sources is *about* 360 mrems per year. It is not, however, uncommon for any of us to receive far more than that in a given year (largely due to medical procedures we may undergo). International Standards allow exposure to as much as 5,000 mrems a year for those who work with and around radioactive material.

FACTORS	COMMON SOURCES OF RADIATION	YOUR ANNUAL DOSE (MHEMS)
WHERE YOU LIVE	Cosmic radiation (from outer space) Exposure depends on your elevation (how much air is above you to block radiation). Amounts are listed in mrem (per year). At sea level26 mrem 2-3000 ft	mrem
	[Elevation of cities (in feet): Atlanta 1050; Chicago 595; Dallas 435; Denver 5280; Las Vegas 2000; Minneapolis 815; Pittsburgh 1200; St. Louis 455; Salt Lake City 4400; Spokane 1890.] Terrestrial (from the ground) If you live in a state that borders the Gulf or Atlantic Coasts, add 16 mrem If you live in the Colorado Plateau area (around Denver), add 63 mrem If you live anywhere else in the continental US, add 30 mrem.	mrem
	House Construction If you live in a stone, adobe, brick or concrete building, add 7 mrem Power Plants If you live within 50 miles of a nuclear power plant, add 0.01 mrem If you live within 50 miles of a coal-fired power plant, add 0.03 mrem	mrem mrem
FOOD WATER	Internal Radiation*** From food (Carbon-14 and Potassium-40) & from water (radon dissolved in water) From air (radon)	
HOW YOU LIVE	Weapons test fallout (less than 1)*	1 mrem mrem mrem mrem mrem
	If you go through luggage inspection at airport	mrem mrem mrem mrem mrem mrem mrem mrem
MEDICAL	If you wear a plutonium-powered pacemaker	mrem
YD	UR ESTIMATED ANNUAL RADIATION DOSE	mrem

- * The value is less than 1, but adding a value of 1 would be reasonable.
- ** Some of the radiation sources listed in this chart result in an exposure to only part of the body. For example, false teeth or crowns result in a radiation dose to the mouth. The annual dose numbers given here represent the "effective dose" to the whole body.
- *** Average values.

Primary sources for this information are National Council on Radiation Protection and Measurements Reports: #92 Public Radiation Exposure from Nuclear Power Generation in the United States (1987); #93 Ionizing Radiation Exposure of the Population of the United States (1987); #95 Radiation Exposure of the U.S. population from Consumer Products and Miscellaneous Sources, (1987); and #100 Exposure of the U.S. Population from Diagnostic Medical Radiation (1989).

