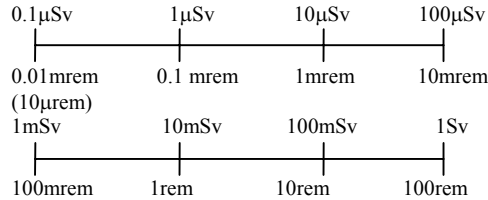


SI Units for Radiation Protection

Radiation Dose

The working SI units is the sievert (SV) (dose equivalent)
 1Sv = 100rem
 1 rem = 0.01Sv = 10mSv



Additional Conversions

Conversion between 7.5µSv/hr = 0.75mrem/hr
 grays (absorbed dose) and rads is the same as
 2mSv/hr = 200mrem/hr
 between sieverts and 30Sv = 3rem
 rems, ie: 1 gray (Gy) = 500Sv = 50rem
 100 rad = 100 roentgen

Transport Index

Transport Index (TI) =
 Radiation dose rate in µSv/hr at
 1 metre from package surface } Divided by 10

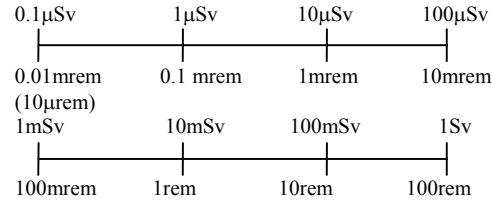
RadSafe Canada Ltd.

211 Hincks St., Pembroke, ON, K8A 4N7
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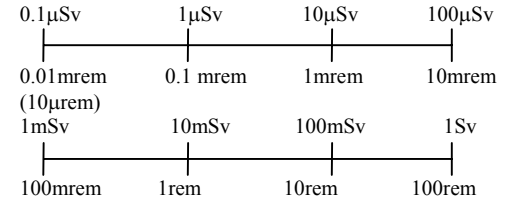
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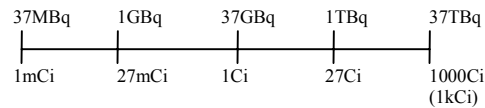
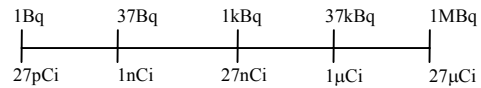


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SI Units for Radiology

The SI unit is the becquerel (Bq)
 1Bq = 1 disintegration per second = 2.7 10⁻¹¹ curie (Ci)
 1Ci = 3.7 x 10¹⁰ Bq = 37GBq



Other Useful Conversions

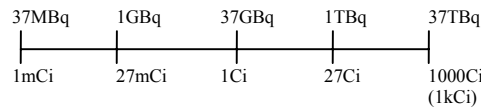
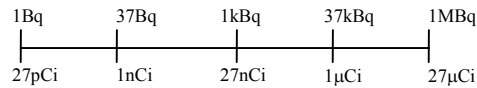
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50MBq = 1.35mCi	5mCi = 185MBq
200MBq = 5.41mCi	10mCi = 370MBq
5GBq = 135mCi	50mCi = 1.85GBq
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Common Prefixes for SI Units

<u>Submultiples</u>			<u>Multiples</u>		
10 ⁻³	milli	m	10 ³	kilo	k
10 ⁻⁶	Micro	µ	10 ⁶	mega	M
10 ⁻⁹	Nano	n	10 ⁹	giga	G
10 ⁻¹²	pico	p	10 ¹²	tera	T

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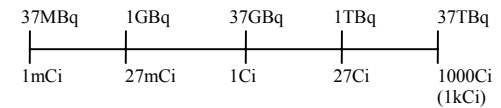
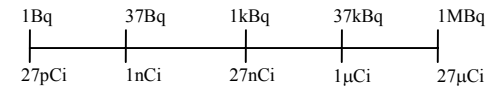
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