

Isotope	Decay in minutes	Type Rad.	Comment
radon-222	5,508	alpha	a half-life of 3.825 days, emits an alpha particle to become polonium-218
polonium-218	3.05	alpha	half-life of 3.05 minutes, emits an alpha particle to become lead-214
lead-214	26.8		emits a beta particle and a gamma ray to become bismuth-214.
bismuth-214	19.7	alpha	emits either an alpha particle or a beta particle and a gamma ray to become either thallium-210 or polonium-214.
polonium-214	0.0000025		emits an alpha particle to become thallium-210.
thallium-210	1.32		emits a beta particle to become lead-210.
lead-210	11,594,880		a half life of 22 years, emits a beta particle and a gamma ray to become bismuth-210.

Time Span for 3 alphas:	5,558 3.859 Days	Each radon atom decays into 3 alphas in 5,558 minutes or 3.859 days. So after 4 days, after the bismuth-214, the next alpha won't appear for 22.5 years with polonium-210.
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