**Original article:**

**The Relationship between Granite Stone and Lung Cancer in Iranianhomeskitchen**

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**Abstract**

Radon is a radioactive noble gas that can be produced from the decay of radium and detected by special devices. In the air, radon compounds stick to the dust particles and other suspended particles and enter into the human body through breathing. Granite issuitable for covering the interior spaces of kitchens due to its beauty, hardness and high strength. On the other hand, radon emission and the increased risk of lung cancer due to the use of granite have created serious concerns. Therefore, in this study the radon emission rate by these stones has been investigated. Results obtained using CR-39 detector and PRASSI device show that the excessive use of granite in the kitchen without proper ventilation will increase residents’lung cancer rates.

**Keywords:** Radioactivity, radon, lung cancer, granite