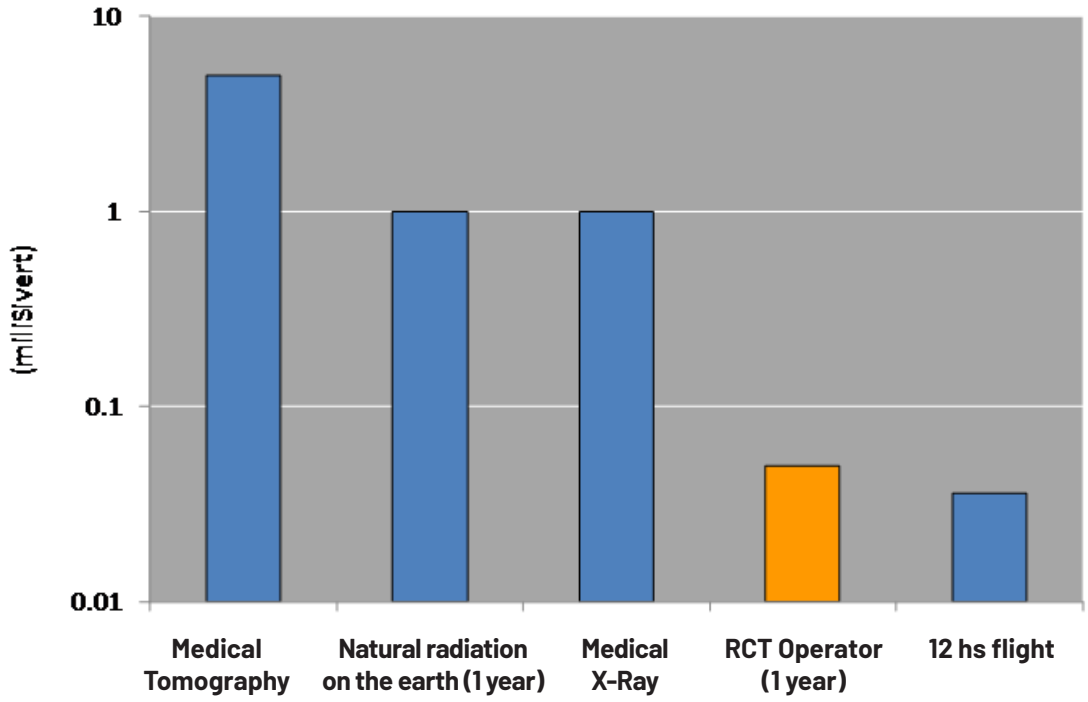
RADIATION SAFETY AT REINFORCED CONCRETE TOMOGRAPHY (RCT)

RCT is similar to computed tomography used in medicine, but instead of X-rays to obtain images, spontaneously emitting gamma radiation is used which does not require electrical energy. This gamma radiation requires the same care as X-rays from the point of view of radiological safety for living things and, therefore, the neighboring sectors to the study site should be free of people only during exposure. Similar to the case of X-rays, gamma rays do not leave any residual radioactivity or effect of any kind on the irradiated parts.

The use of this technique by THASA is authorized and controlled by the Nuclear Regulatory Authority. In this sense, THASA has an Institutional License and its operators have an Individual Permit to carry out RCT practices.

As a reference, the following graph shows the comparison of doses (in milliSivert) of a THASA operator during 1 year of internship and that we receive in different daily activities, such as on a plane trip, or taking medical images, or simply how much average dose of natural radiation we receive for living for a year on the face of the earth.



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